



Shri Shivaji Education Society, Amravati's
SHRI SHIVAJI SCIENCE & ARTS COLLEGE,
CHIKHLI, DIST. BULDANA (M.S.) 443201
NAAC 'B++' GRADE (WITH CGPA OF 2.82)



॥ ज्ञानम् परम् ध्येयम् ॥

Department of Computer Science

Remedial Coaching 2020-21



SHRI SHIVAJI SCIENCE & ARTS COLLEGE CHIKHLI,

DISTT. BULDANA

Department of Computer Science

NOTICE

All the students of M.Sc. Part. I (Computer Science) are hereby informed that their Remedial classes have been commenced from 02/08/2021. So, students are informed to attend the classes regularly as per the timetable schedule.

AW

Dr. A. B. Kadam

Head

**Dept. Of Computer Science
Shri Shivaji Sci. & Arts College
Chikhli, Dist - BULDANA (M.S.)**



Shri Shivaji Science & Arts College, Chikhli

Department of Computer Science

Remedial Classes

Remedial Classes of M.Sc. I

Every batch of new students in computer science department is conducting the remedial coaching classes for M.Sc. I year students. The head of the department along with the departmental colleague interacts with the student in order to identify areas of student potential as well as areas where remedial assistance is required.

The remedial programme with the support of UGC is designed on the basis of departments analysis at the beginning of every semester regarding students' performance.

- Computer Science departments conduct special practical sessions for students who are admitted late, so that they can catch up with the rest of the class. The students and the teachers are notified about the schedule and details of remedial classes through notices. In addition, the departments organize different activity like group discussions, study tours, guest lectures along with interactions with the subject experts, etc. These special classes are conducted apart from the regular timetable of the college. Remedial classes are conducted subject wise as per the need of the students.

Objectives Of Remedial Coaching:

- Remedial classes were conducted through peer learning.
- The course teachers had identified advanced learners. The goal was to improve the team building and communication between the peers, as well as to clear the doubts.
- The remedial classes are conducted regularly for the identified slow learners, as per the schedule. During these classes, additional study materials are also arranged by the faculty for the students to bridge the knowledge gap & enable them to cope with the academic course to which they are enrolled.

Methodology To Implement the Remedial Class:

- Tutorials, discussions, interactions in remedial coaching.
- Concept clarification and problem-solving exercises.
- Bilingual explanations and discussions.
- Provision for simplified but standard lecture notes/course material.
- Revision of topics and practicals.
- Enhancement of communication skills and art of reading-learning.
- For the advanced learners, the college makes due efforts by providing them adequate platforms.

Expected Outcomes:

- Improvements in university exam results of identified slow learners.
- Enhancement in regularity and involvement in classroom teaching- learning.
- Development of better and accurate sense of self with improved confidence.
- Development and nurturing the deep understating of personal motivation.
- Students get opportunities for future.
- Confidence development to face the placement drives.
- Enhanced interest in the chosen subjects, programming language.

Dspeshmukh
PRINCIPAL
Shri Shivaji Science & Arts
College, Chikhli, Dist. Buldhana



[Signature]
HOD Head
Dept. Of Computer Science
Shri Shivaji Sci. & Arts College
Chikhli, Dist - BULDANA (M. S.)

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Shri Shivaji Science & Arts College, Chikhli, Dist Buldana.

Department of Computer Science

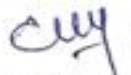
Syllabus for Remedial Classes

M.Sc.-I

Academic Year 2020-21

Date: 30-07-2021

Sr.No.	Subject	Content
1	Data Structure	Types of Data Structures, Array, Stacks, Queues, Dequeue, Linked List, Doubly Linked list, Circular list, Trees, Searching, Sorting, Graphs, Indexing
2	.Net	Understanding .net, Overview of C#, Classes and objects, Operator overloading, Multithreading in c#, Data Access with .Net
3	Java	Introduction to java, Identifiers, Keywords, variables, constants, operators. Data types and type casting and type conversion. Control Structures: Simple if, If..else, switch statement, Objects and classes, Loop structure, Packages, Applet, Exception Handling, User Interface.


Dr. A. B. Kadam

Head
Dept. Of Computer Science
Shri Shivaji Sci. & Arts College
Chikhli, Dist - BULDANA (M.S.)




Shri Shivaji Science & Arts College, Chikhli

Department of Computer Science

Remedial Classes Schedule of M.Sc. I 2020-21

Remedial Classes Schedule of M.Sc. I for Academic Year 2020-21 :

Sr.No.	Class	Date	Subject	Name of the Teacher
1	M.Sc. I	02-08-2021	Data Structure	Dr. M.E. Jadhav
			.Net	Dr.S.S. Gaikwad
2	M.Sc. I	03-08-2021	Java Programming	Dr. A. B. Kadam
			Data Structure	Dr. M.E. Jadhav
			.Net	Dr.S.S. Gaikwad
3	M.Sc. I	04-08-2021	Java Programming	Dr. A. B. Kadam
			Data Structure	Dr. M.E. Jadhav
			.Net	Dr.S.S. Gaikwad
4	M.Sc. I	06-08-2021	Java Programming	Dr. A. B. Kadam
			Data Structure	Dr. M.E. Jadhav
			.Net	Dr.S.S. Gaikwad
5	M.Sc. I	07-08-2021	Java Programming	Dr. A. B. Kadam
6	M.Sc. I	09-08-2021	Java Programming	Dr. A. B. Kadam
			.Net	Dr.S.S. Gaikwad
7	M.Sc. I	10-08-2021	Data Structure	Dr. M.E. Jadhav


Dr. A. B. Kadam

Head
Dept. Of Computer Science
Shri Shivaji Sci. & Arts College
Chikhli, Dist - BULDANA (M.S.)

Remedial Coaching Class Link: Dr. A. B. Kadam	
<p>Avinash Kadam is inviting you to a scheduled Zoom meeting.</p> <p>Topic: Avinash Kadam's Zoom Meeting Time: Aug 3, 2021 09:45 AM India Class:M.SC.I Subject: Java Programming</p> <p>Join Zoom Meeting https://us04web.zoom.us/j/77948868957?pwd=OXdRRVlMciszb0Z3d08zalJUVzJwUT09</p> <p>Meeting ID: 779 4886 8957 Passcode: JFPum6</p>	<p>Avinash Kadam is inviting you to a scheduled Zoom meeting.</p> <p>Topic: Avinash Kadam's Zoom Meeting Time: Aug 4, 2021 10:30 AM India Class:M.SC.I Subject: Java Programming</p> <p>Join Zoom Meeting https://us04web.zoom.us/j/74956919956?pwd=SEpTYjA4cExPK3QyYTIDNHlxQWlxdz09</p> <p>Meeting ID: 749 5691 9956 Passcode: qWUj03</p>
<p>Avinash Kadam is inviting you to a scheduled Zoom meeting.</p> <p>Class: M.Sc.I Subject: Java Topic: Avinash Kadam's Zoom Meeting Time: Aug 6, 2021 10:45 AM India</p> <p>Join Zoom Meeting https://us04web.zoom.us/j/2964995648?pwd=OHNNOWFuZ0lRb0x0vMEtmWWRiZz09</p> <p>Meeting ID: 296 499 5648 Passcode: 7MrAuS</p>	<p>Avinash Kadam is inviting you to a scheduled Zoom meeting.</p> <p>Topic: Avinash Kadam's Zoom Meeting Time: Aug 7, 2021 10:00 AM India</p> <p>Class: M.Sc.I Subject: JAVA</p> <p>Join Zoom Meeting https://us04web.zoom.us/j/2964995648?pwd=OHNNOWFuZ0lRb0x0vMEtmWWRiZz09</p> <p>Meeting ID: 296 499 5648 Passcode: 7MrAuS</p>
<p>Avinash Kadam is inviting you to a scheduled Zoom meeting.</p> <p>Topic: Avinash Kadam's Zoom Meeting Time: Aug 9, 2021 09:30 AM India</p> <p>Class: M.SC.I Subject: JAVA Programming</p> <p>Join Zoom Meeting https://us04web.zoom.us/j/79701137653?pwd=OG5LTm9Ia3BmK0dLZGIHd1pMd2hwdz09</p> <p>Meeting ID: 797 0113 7653 Passcode: ru0Eqm</p>	

Remedial Class:-Attendance: [M.Sc.i] Date-03-08-2021 [Java]

Topic: Introduction to Java Programming

Class: M.Sc. I

Dr. A. B. Kadam
Assistant Professor & HOD
Department of Computer Science
Shri Shivaji Science & Arts College
Chikhli, Dist: Buldana [M.S.] India.

Participants (1)
Waiting Room (2)
kiran solanki
Rishi chechare
In the Meeting (1)
Avinash Kadam (Host, me)

Content to be covered

- Part III: GUI Programming
 - 10 Getting Started with GUI Programming
 - 11 Creating User Interfaces
 - 12 Applets and Advanced GUI

Participants (1)
Waiting Room (2)
kiran solanki
Rishi chechare
In the Meeting (1)
Avinash Kadam (Host, me)

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Participants (3)

- Avinash Kadam (Host, me)
- kiran solanki
- Rishi chechare

Characteristics of Java

- Java is simple
- Java is object-oriented
- Java is distributed
- Java is interpreted
- Java is robust
- Java is secure
- Java is architecture-neutral
- Java is portable
- Java's performance
- Java is multithreaded
- Java is dynamic

12

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Participants (4)

- Avinash Kadam (Host, me)
- kiran solanki
- Rishi chechare
- ee54981f

Example

```
javac Welcome.java
```

```
java Welcome
```

output:...

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Participants (4)

- Avinash Kadam (Host, me)
- kiran solanki
- Rishi chechare
- Dipali Gadge

Exec

- On command - java class

java: Welo
java: Welo
outputi...

Invite Mute All

Compiling and Running a Program

Where are the files stored in the directory?

```

c:\example
├── chapter1
│   ├── Welcome.java
│   ├── Welcome.class
│   └── Welcome.java~
├── chapter2
│   └── Java source files and class files for Chapter 2
├── ...
└── chapter19
    └── Java source files and class files for Chapter 19
  
```

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Slide 21 of 34 "Office Theme" English (United States)

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Participants (6)

- Avinash Kadam (Host, me)
- kiran solanki
- Rishi chechare
- Vaishu Jurnde
- Dipali Gadge
- Shubhangi Mutthe

Reserved words

- Reserved words have specific meanings for other purposes
- For example, when the compiler understands that the word class
- Other reserved words and void. Their use will be introduced later in the book.

•Reserved words or keywords are words that have a specific meaning to the compiler and cannot be used for other purposes in the program.

•For example, when the compiler sees the word class, it understands that the word after class is the name for the class.

•Other reserved words in Example 1.1 are public, static, and void. Their use will be introduced later in the book.

25

Slide 25 of 34 "Office Theme" English (United States)

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Participants (6)

- Avinash Kadam (Host, me)
- kiran solanki
- Rishi chechare
- Vaishu Jumdre
- Dipali Gadge
- Shubhangi Mutthe

Invite Mute All

Compiling and Running a Program

Where are the files stored in the directory?

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│   ├── Welcome.class
│   └── Welcome.java
├── chapter2
│   └── Java source files and class files for Chapter 2
├── ...
└── chapter19
    └── Java source files and class files for Chapter 19
  
```

21

Slide 21 of 34 "Office Theme" English (United States)

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Participants (6)

- Avinash Kadam (Host, me)
- kiran solanki
- Rishi chechare
- Vaishu Jumdre
- Dipali Gadge
- Shubhangi Mutthe

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Blocks

A pair of braces in a program forms a block that groups components of a program.

```

public class Test {
    public static void main(String[] args) {
        System.out.println("Welcome to Java!");
    }
}
  
```

Class block

Method block

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Slide 28 of 34 "Office Theme" English (United States)

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Remedial Class:-Attendance: [M.Sc.i] Date-04-08-2021 [Java]

Participants (5)

- Avinash Kadam (Host, me)
- kiran solanki
- Rishi chechare
- Vaishu Jumde
- Vishal Dhare

The exit Method

- Use Exit to terminate the program and stop all threads to run the program.
- NOTE: When your program starts, a thread is spawned to run the program.
- When the showMessageDialog is invoked, a separate thread is spawned to run this method.
- The thread is not terminated even you close the dialog box.
- To terminate the thread, you have to invoke the exit method.

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Inheritance

- Class hierarchy
- Generalization and Specialization
 - subclass inherits attributes and services from its superclass
 - subclass may add new attributes and services
 - subclass may reuse the code in the superclass
 - subclasses provide specialized behaviors (overriding and dynamic binding)
 - partially define and implement common behaviors (abstract)

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Remedial Class:-Attendance: [M.Sc.i] Date-06-08-2021 [Java]

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Participants (5)

- Avinash Kadam (Host, me)
- kiran solanki
- RISHI CHECHARE
- Vaishu Jumde
- Vishal Dhare

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```
While loop:
public class MyClass {
    public static void main(String[] args) {
        int i = 0;
        while (i < 5) {
            System.out.println(i);
            i++;
        }
    }
}
Output:
0 1 2 3 4

Do-while loop:
public class DoWhileExample {
    public static void main(String[] args) {
        int i = 1;
        do {
            System.out.println(i);
            i++;
        } while (i <= 10);
    }
}
Output:
1 2 3 4 5 6 7 8 9 10
```

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10:48 06-08-2021

Photos - java-program-loop.jpg

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Participants (5)

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- kiran solanki
- RISHI CHECHARE
- Vaishu Jumde
- Vishal Dhare

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```
While loop:
public class Test {
    public static void main(String[] args) {
        int x = 10;
        while (x < 20) {
            System.out.println("value of x : " + x);
            x++;
            System.out.println("\n");
        }
    }
}
Output
value of x : 10
value of x : 11
value of x : 12
value of x : 13
value of x : 14
value of x : 15
value of x : 16
value of x : 17
value of x : 18
value of x : 19
-----
For loop:
public class MyClass {
    public static void main(String[] args) {
        for (int i = 0; i <= 10; i = i + 2) {
            System.out.println(i);
        }
    }
}
Output:
0 2 4 6 8 10
```

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10:54 06-08-2021

Participants (5)

- Avinash Kadam (Host, me)
- kiran solanki
- RISHI CHECHARE
- Vaishu Jumde
- Vishal Dhare

```
1. //Java Program to demonstrate the use of If else-if ladder.
2. //It is a program of grading system for fail, D grade, C grade, B grade, A grade and A+.
3. public class IfElseIfExample {
4.     public static void main(String[] args) {
5.         int marks=55;
6.         if(marks<50){
7.             System.out.println("fail");
8.         }
9.         else if(marks<=50 && marks<60){
10.            System.out.println("D grade");
11.        }
12.        else if(marks>=60 && marks<70){
13.            System.out.println("C grade");
14.        }
15.        else if(marks>=70 && marks<80){
16.            System.out.println("B grade");
17.        }
18.        else if(marks>=80 && marks<90){
19.            System.out.println("A grade");
20.        }else if(marks>=90 && marks<100){
21.            System.out.println("A+ grade");
22.        }else{
23.            System.out.println("Invalid");
24.        }
25.    }
26. }
```

-----Output-----

```
C grade
1. public class PositiveNegativeExample {
2.     public static void main(String[] args) {
3.         int number=-13;
4.         if(number>0){
5.             System.out.println("POSITIVE");
6.         }else if(number<0){
7.             System.out.println("NEGATIVE");
8.         }else{
9.             System.out.println("ZERO");
10.        } }
NEGATIVE
```

Remedial Class:-Attendance: [M.Sc.i] Date-07-08-2021 [Java]

Methods

- Syntax of a method call:
`<objectName or ClassName>.method-name (argument-list)`
- Method calls are analogous to messages being sent between objects or classes
- Method calls should always be preceded by the object or class receiving the message followed by the "dot" operator
- I encourage you to use the keyword "this" to precede the dot operator when calling an inherited method or an instance method

Participants (5)

- Avinash Kadam
- Vaishu Jumde
- Vaishu Jumde
- RISHI CHECHARE
- kiran solanki
- Dipali B.Gadge

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20 of 41

Java Keywords (Reserved Words)

abstract	else	interface	super
boolean	extends	long	switch
break	false	native	synchronized
byte	final	new	this
case	finally	null	throw
catch	float	package	throws
char	for	private	transient
class	goto	protected	true
const	if	public	try
continue	implements	return	void
default	import	short	volatile
do	instanceof	static	while
double	int	strictfp	

Participants (6)

- Avinash Kadam (Host, me)
- kiran solanki
- RISHI CHECHARE
- Vaishu Jumde
- Vishal Dhare
- Dipali B.Gadge

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Java Keywords (Reserved Words)

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byte	final	new	this
case	finally	null	throw
catch	float	package	throws
char	for	private	transient
class	goto	protected	true
const	if	public	try
continue	implements	return	void
default	import	short	volatile
do	instanceof	static	while
double	int	strictfp	

Vaishu Jumde

Vaishu Jumde

RISHI CHECHARE

Vishal Dhare

Vishal Dhare

Dipali B.Gadge

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kiran solanki

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Type here to search

The screenshot shows a Zoom meeting in progress. The main window displays a Google search for "loops in java". The search results include a link to "Loops in Java - GeeksforGeeks" with a snippet: "Loops in Java - While loop starts with the checking of condition...". A "Participants (7)" window is open on the left, listing: Avinash Kadam (Host, me), kiran solanki, RISHI CHECHARE, Shubhangi Mutthe, Vaishu Jumde, Vishal Dhare, and Dipali B.Gadge. The Zoom control bar at the bottom shows "Remaining Meeting Time: 06:38" and "Stop Share". The Windows taskbar at the very bottom shows the date as 10:27 on 07-08-2021.

Remedial Class:-Attendance: [M.Sc.I] Date-09-08-2021 [Java Programming]

The screenshot shows a Zoom meeting with a PowerPoint presentation. The slide is titled "Need of Object Oriented Approach" and lists several points:

- Software is Inherently Complex
 - ◆ Impedance mismatch between user of a system and it's developer.
 - ◆ Changing Requirements during development.
 - ◆ Difficulty of managing software development process. It's a team effort.
 - ◆ Easy User Interface.
 - ◆ Clients want systems to be adaptable and Extensible

 The slide footer reads "Basic Java : Object Oriented Concepts". A "Participants (5)" window is open on the left, listing: Avinash Kadam (Host, me), Shubhangi Mutthe, kiran solanki, RISHI CHECHARE, Dipali B.Gadge, and Vaishu Jumde. The Zoom control bar at the bottom shows "You are screen sharing" and "Stop Share". The Windows taskbar at the very bottom shows the date as 09:35 on 09-08-2021.

00_JavaProgramming-all-concepts-short[1] [Compatibility Mode] - Microsoft PowerPoint

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Participants (6)

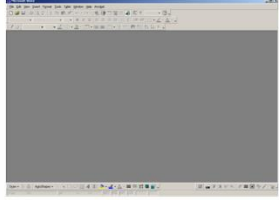
- Avinash Kadam (Host, me)
- kiran solanki
- RISHI CHECHARE
- Shubhangi Mutthe
- Vaishu Jumde
- Dipali B.Gadge

Invite Mute All

Behavior of an Object

Window Operations

- Open
- Close
- Maximize
- Minimize
- Resize
- Move
- Write



Totally of operations we can perform upon a window and consequent changes in attributes defines behavior of a window

Basic Java : Object Oriented Concepts 12

Click to add notes

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09:47 09-08-2021

Remedial Lecture Date:-04 August 201 Time:-12:00

Mukti Jadhav is inviting you to a scheduled Zoom meeting.

Topic: Data Structure's Zoom Meeting

Time: Aug 4, 2021 12:00 PM India

Join Zoom Meeting

<https://us04web.zoom.us/j/71513382667?pwd=SEkxai9CTzBvWGFEb2M4V0JYN3NQQT09>

Meeting ID: 715 1338 2667

Passcode: 3KS5ae

The screenshot shows a Zoom meeting in progress. On the left, a PowerPoint slide titled "Pop Operation" is shared. The slide content is as follows:

Pop Operation

- Accessing the content while removing it from the stack, is known as a Pop Operation. In an array implementation of pop() operation, the data element is not actually removed, instead top is decremented to a lower position in the stack to point to the next value. But in linked-list implementation, pop() actually removes data element and deallocates memory space.
- A Pop operation may involve the following steps –
 - Step 1** – Checks if the stack is empty.
 - Step 2** – If the stack is not empty, produces an error and exit.
 - Step 3** – If the stack is not empty, accesses the data element at which top is pointing.
 - Step 4** – Decreases the value of top by 1.
 - Step 5** – Returns success.

On the right side of the Zoom interface, there is a grid of participant avatars. The participants visible are: Mukti Jadhav (two instances), Sonali, Vaishu Jumde, Rishi chechare, Vishal Dhare, Dipali Gadge, and kiran solanki. The Zoom control bar at the bottom includes options for Join Audio, Start Video, Participants, Chat, Share Screen, Record, Reactions, and Leave.

You are viewing Mukti Jadhav's screen

View Options

The slide titled "Pop Operation" contains the following text:

- Accessing the content while removing it from the stack, is known as a Pop Operation. In an array implementation of pop() operation, the data element is not actually removed, instead top is decremented to a lower position in the stack to point to the next value. But in linked-list implementation, pop() actually removes data element and deallocates memory space.
- A Pop operation may involve the following steps -
 - Step 1 - Checks if the stack is empty.
 - Step 2 - If the stack is empty, produces an error and exit.
 - Step 3 - If the stack is not empty, accesses the data element at which top is pointing.
 - Step 4 - Decreases the value of top by 1.
 - Step 5 - Returns success.

Participants grid:

- Mukti Jadhav (M)
- Sonali
- Mukti Jadhav (M)
- Vaishu Jumde
- Rishi chechare
- Vishal Dhare
- kiran solanki (k)

Click to join audio

Join Audio Start Video

Participants 7 Chat Share Screen Record Reactions Leave

You are viewing Mukti Jadhav's screen

View Options

The slide titled "Push" contains the following text:

- Method push

```

public void push(T newElement)
{
    stackNode<T> newNode; //reference variable to create
    //the new node

    newNode = new
    stackNode<T>(newElement, stackTop); //create
    //newNode and insert
    //for stackTop

    stackTop = newNode; //set stackTop to point to
    //the top element
} //end push

```

Participants grid:

- Mukti Jadhav (M)
- Sonali
- Mukti Jadhav (M)
- Vaishu Jumde
- Rishi chechare
- kiran solanki (k)

Click to join audio

Join Audio Start Video

Participants 6 Chat Share Screen Record Reactions Leave

Zoom Lectures Date :-02 August 2021 Time:- 02:00 PM_ .Net remedial class_ ScreenShot

Zoom Link:-

sonali gaikwad is inviting you to a scheduled Zoom meeting.

Topic: sonali gaikwad's Zoom Meeting on .Net For Remedial Lectures for M.Sc.-1st year

Time: Aug 2, 2021 02:00 PM India

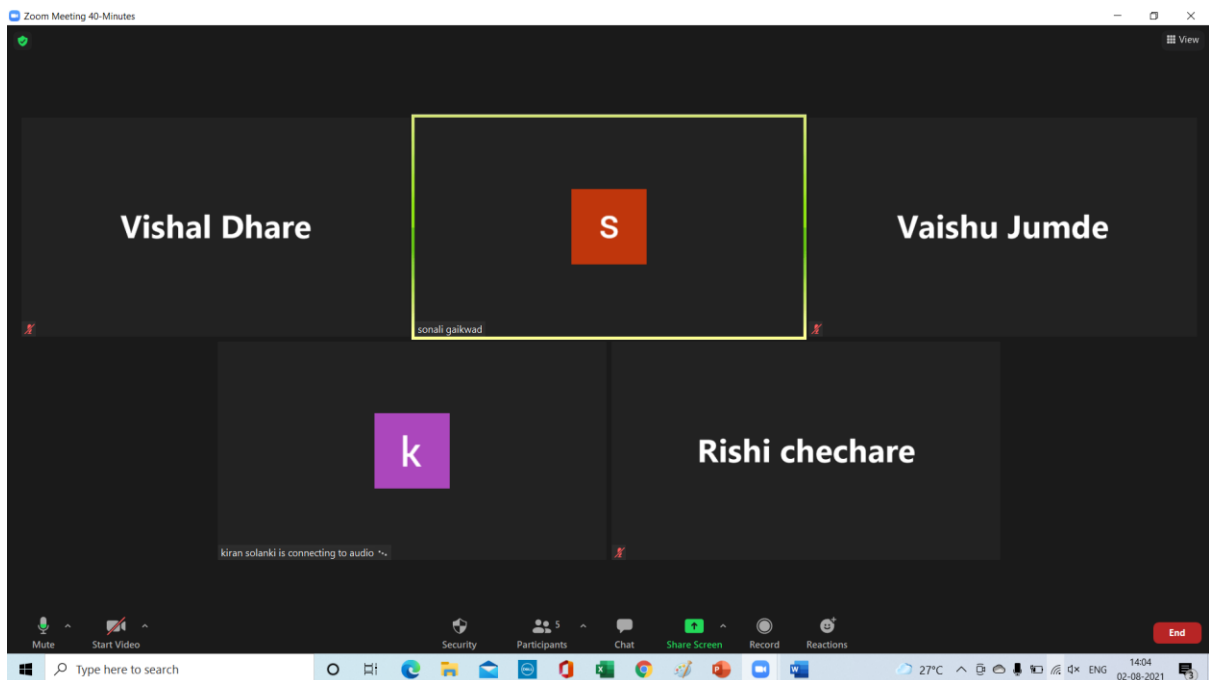
Join Zoom Meeting

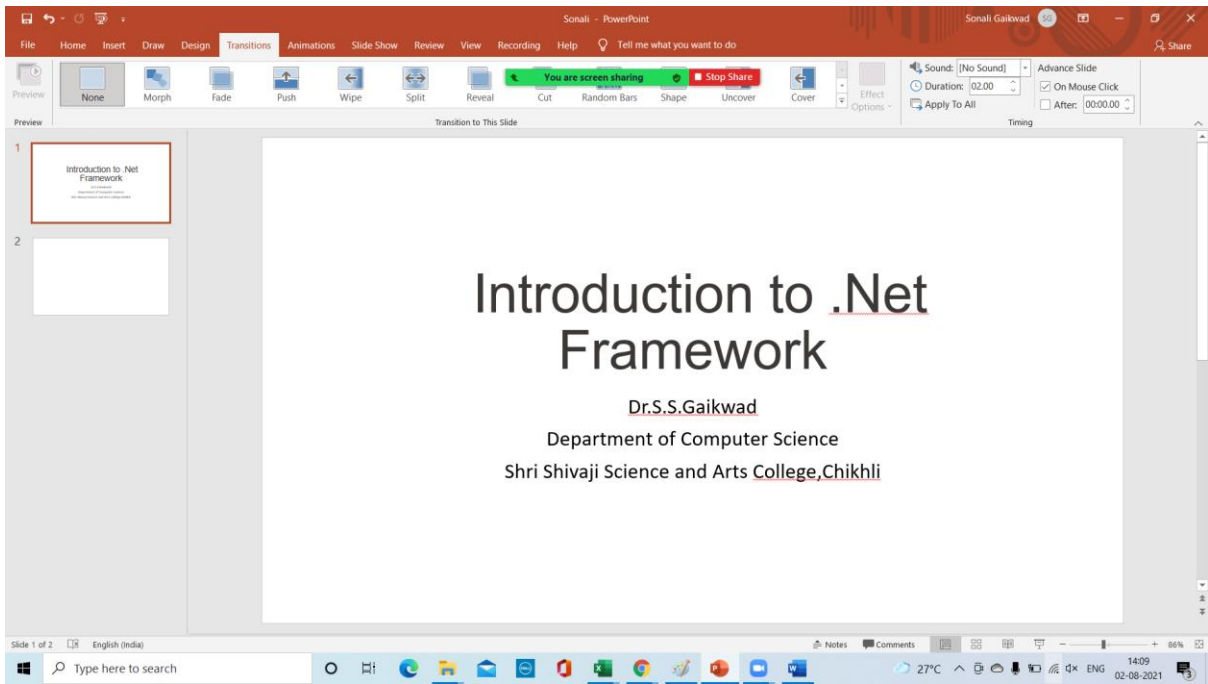
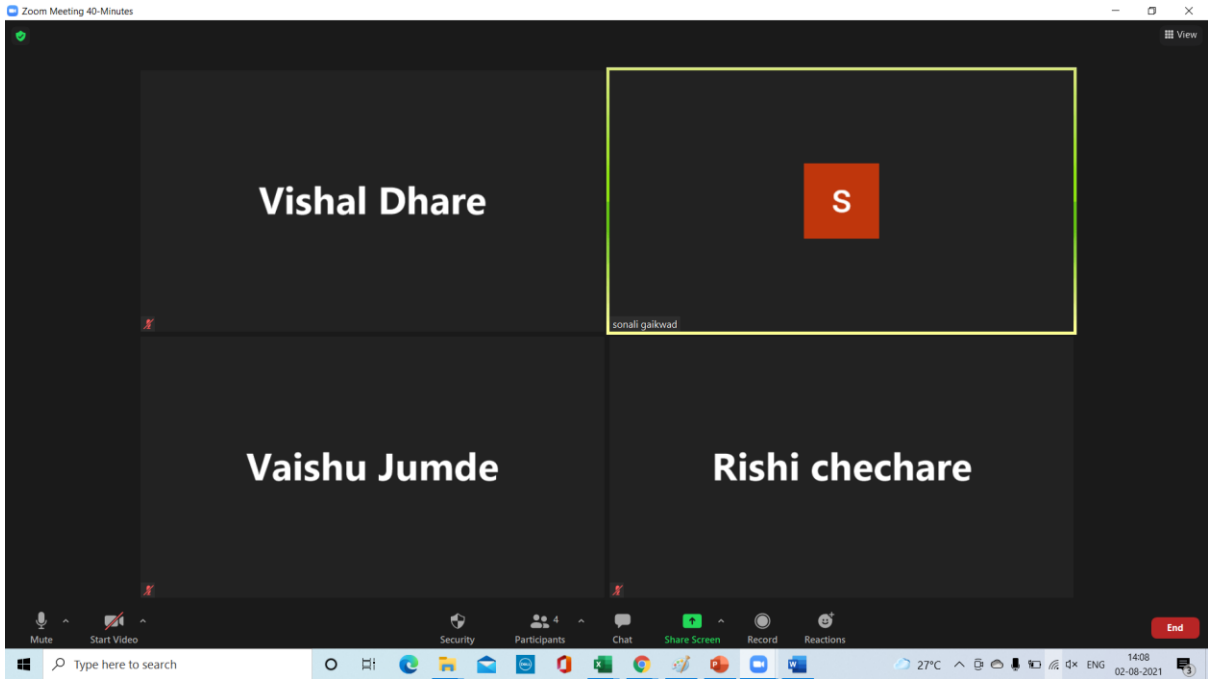
<https://us04web.zoom.us/j/71442410458?pwd=cmdvbi80ZndkY0k5WTA4ZHcyQWwyUT09>

Meeting ID: 714 4241 0458

Passcode: 7HL34S

Screen Shots of Lecture: -





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Before .NET

- Windows GUI development: Win32 API, MFC, Visual Basic, COM
- Web development: ASP
- Java – “Write once, run anywhere.”
- Embrace and extend: Visual J++

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.Net, the Rescuer

```
graph TD; OOP[OOP] --> NET((.NET)); JVM[JVM] --> NET; GUI[GUI] --> NET; Web[Web] --> NET; component_based_design[component-based design] --> NET; n_tier_design[n-tier design] --> NET;
```

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Participants (5)

- sonali galkwad (Host, me)
- Rishi chechare
- Vaishu Jumde
- Vishal Dhare
- Shubhangi Mutthe

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.Net, the Rescuer

The diagram consists of three overlapping circles. The left circle is labeled 'Thick Clients' and contains the text: 'Heavy footprint', 'Tough to deploy', and '"DLL Hell"'. The middle circle is labeled 'Smart Clients' and contains: 'Rich user experience', 'High developer productivity', 'Responsive', and 'Device Adaptability'. The right circle is labeled 'Thin Clients' and contains: 'Web services & Offline/Online support', 'Broad Reach', 'Easy change management', 'Easy to deploy', 'Network dependency', 'Poor user experience', and 'Complex to develop'. The intersection of Thick and Smart clients contains 'Rich user experience' and 'High developer productivity'. The intersection of Smart and Thin clients contains 'Easy change management' and 'Easy to deploy'. The intersection of Thick and Thin clients contains 'Web services & Offline/Online support'. The central intersection of all three contains 'Responsive'.

Type here to search

27°C

14:22 02-08-2021

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Narrow view of .Net applications

```
graph TD; A[.NET Application] <--> B[.NET Framework]; B --> C[Operating System + Hardware];
```

The flowchart shows three orange rectangular boxes stacked vertically. The top box is labeled '.NET Application'. A double-headed red arrow connects it to the middle box, labeled '.NET Framework'. A single-headed red arrow points from the middle box to the bottom box, labeled 'Operating System + Hardware'.

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.Net Architecture

- .NET architecture is:
 - multi-language
 - cross-platform
 - based on the CLR, FCL, and JIT technology
 - .NET components are packaged as assemblies

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Zoom Meeting 40-Minutes View

Vishal Dhare

S

Vaishu Jumde

sonali gaikwad

Rishi chechare

Shubhangi Muthe

Mute Start Video Security Participants Chat Share Screen Record Reactions End

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Sonali - PowerPoint

File Home Insert Draw Design Transitions

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Remaining Meeting Time: 08:26 Stop Share

Duration: 02:00 On Mouse Click After: 00:00:00

Transition to This Slide

1 Introduction to Net Framework

2

The diagram shows the layers of .NET Architecture from top to bottom:

- VB, C++, C#, JScript, J#, ...
- Common Language Specification
- ASP.NET: Web Services and Web Forms, Windows Forms
- ADO.NET: Data and XML
- Base Class Library
- Common Language Runtime

Net supports about 70+ languages

Slide 2 of 2 English (India)

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27°C 14:33 02-08-2021

Remaining Meeting Time: 01:02 Stop Share

.Net Architecture

Web services	UDDI, WSDL, Passport
Open interchange formats	XML & SOAP
Frameworks & libraries	ASP.NET, ADO.NET, Windows Forms, Remoting, Serialization...
Specific language compilers	C#, Visual Basic.Net, Managed C++, Cobol, Eiffel for .NET...
Language interoperability	Common Language Specification (CLS)
Development environment	Visual Studio.Net
Compilation, execution...	Common Language Runtime (CLR)
Underlying platform	Hardware, Operating system, database system

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Shri Shivaji Science & Arts College, Chikhli

Department of Computer Science

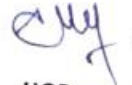
Remedial Classes Result of M.Sc. I 2020-21

Remedial Classes Result of M.Sc. I for Academic Year 2020-21:

Sr. No.	Name of the student	First Test (20)	Final Test (20)	Remark
1	DIPALI BHASKAR GADGE	15	18	Good
2	KIRAN VITHOBA SOLANKI	14	16	Good
3	MAYUR GAJANAN UMRE	12	15	Good
4	RISHEKSH VIJAY CHECHARE	11	16	Good
5	SHUBHANGI SAHEBRAO MUTTHE	10	15	Good
6	VAISHNAVI VASANTRAO JUMDE	12	16	Good
7	VISHAL PRABHAKAR DHARE	11	15	Good


PRINCIPAL
Shri Shivaji Science & Arts
College, Chikhli, Dist. Buldhana




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