



Sandip Foundation's
Sandip Institute of Engineering and Management,
Mahiravani, Trimbak Road, Nashik-422213



Department of Computer Engineering

Institute Vision

We at SIEM aspire to be a globally recognized Institute that delivers a world class education to outstanding intellectual by nurturing and grooming by their interest, creative abilities and thrusts to acquire a life-long learning so as to imbibe values of their commitment towards society.

Department Vision

The department aims to be recognized in the field of quality education through excellence in teaching, learning, research and innovation for the betterment of society.

EVENT REPORT

On Workshop “ JAVA”

Name of Event: Workshop “ JAVA”

Date of Event: 20/09/2021 to (30/09/2021)

Coordinator of Event: Prof. V V Mahale

Name and Details of Resource Person: Mr Sunil Joshi, R3Systems Pvt India Limited Nashik.

No of Participants: 30

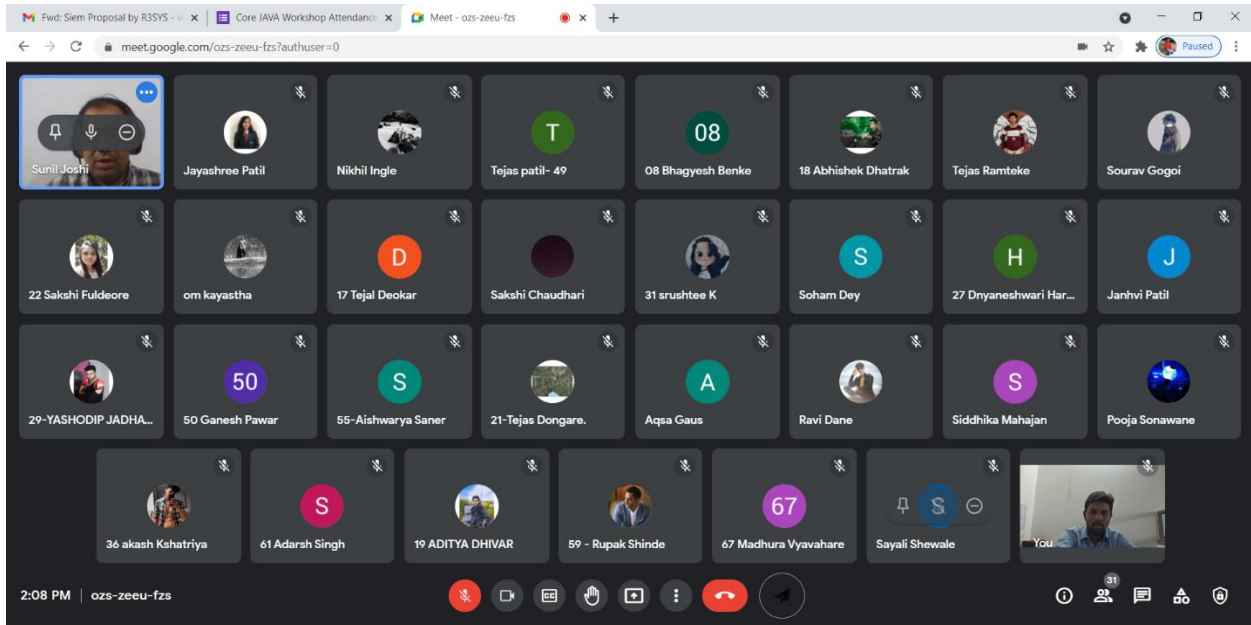
Details of Participants: Students SE,TE Computer Engineering Department.

Program Outcome Mapped: PO1, PO2, PO5,PO9, PSO1

Objectives: To Prepare engineering students ready for placements and also make them learn the software development process using the programming language

Outcome: Students have learned core java with practical implementation

Photos:



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Sunil Joshi is presenting

2:16 PM | ozs-zeeu-fzs

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Sunil Joshi is presenting

R3 Java Training Day-1 Presentation

Features of Java

Simple

- Eliminated a complex concept - Pointers
- Less execution time - Byte code
- Provides richest set of packages
- Provides built-in facility - Garbage collector

2:40 PM | ozs-zeeu-fzs

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Java workshop day-2 21/09/2021

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Sunil Joshi is presenting

Types of software

- Internet Software**
 - Purpose : Develop distributed applications that runs in context of browser & whose results are sharable across the universe
 - Languages used :
 - Java
 - .NET

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Sunil Joshi is presenting

Why we learn Java..????



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Go to Settings to activate Windows.

2:09 PM | wwq-ftti-cjx

Soham Dey, om kayastha, 31 srushtee K, Sunil Joshi, Jayashree Patil, Tejas Ramteke, 23 others, You

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Sunil Joshi is presenting

Features of Java

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 - Provides built-in facility - Garbage collector

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Sunil Joshi is presenting

Data Types

- Purpose : to allow memo
- Types :
 - Fundamental data
 - int, float, char

```
int a,b,c;
float p,q,r;
Integer category
```

2:25 PM | wwq-ftti-cjx

26°C Rain 2:25 PM 21/09/2021

Participants: Soham Dey, 21-Tejas Dongare, 29-YASHODIP JADHAV, Sunil Joshi, Jayashree Patil, Tejas Ramteke, 23 others, You.

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Sunil Joshi is presenting

Method

- Approaches to define methods :
 - A method will take the input/values & method will return the output/values

METHOD DEFINITION	METHOD CALL
<pre>int sum(int x,int y) { int z=x+y; return(z); }</pre>	<pre>int res=sum(10,20); print res;</pre>

3:25 PM | wwq-ftti-cjx

26°C 3:25 PM 21/09/2021

Participants: 31 srushtee K, Jayashree Patil, 29-YASHODIP JADHAV, Sunil Joshi, 18 Abhishek Dhattrak, Aqsa Gaus, 24 others, You.

JAVA workshop : Day 3 22/09/2021

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Sunil Joshi is presenting

Example

Program Name: MulDemo.java

```

class Mul
{
    int a,b,c;
    void accept()
    {
        a=10;
        b=20;
    }
    void mult()
    {
        c=a*b;
    }
    void disp()
    {
        System.out.println("Multiplication Result : "+c);
    }
}

```

```

class MulDemo
{
    public static void main(String args[])
    {
        Mul obj=new Mul();
        obj.accept();
        obj.mult();
        obj.disp();
    }
}
//Execution logic
Output:
Multiplication Result : 200

```

Tejas Ramteke, Tejas patil-49, Aqsa Gaus, 08 Bhagyesh Benke, Sunil Joshi, 27 Dnyaneshwari Harde, 20 others, You

3:35 PM | efw-sdwr-zvt

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Sunil Joshi is presenting

```

class Calculator
{
    int a=10,b=20,c;//variable decla
    void add()
    {
        c=a+b;
        System.out.println("addition"+c);
    }
    public static void main(String k[])
    {
        Calculator obj=new Calculator();//obj created
        obj.add();
    }
}

```

Sunil Joshi, 19 ADITYA DHIVAR, 17 Tojal Deokar, Aqsa Gaus, 08 Bhagyesh Benke, 27 Dnyaneshwari Harde, 20 others, You

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Sunil Joshi is presenting

```

C:\practico>javac C:\demo.java
Note: Some messages have been simplified; recompile with -Xdiags:verbose to get full output
1 error
C:\practico>java C:\demo.java
java: file not found: C:\demo.java
Usage: java [-options] <source files>
use -help for a list of possible options
C:\practico>javac C:\demo.java
java: file not found: C:\demo.java
Usage: java [-options] <source files>
use -help for a list of possible options
C:\practico>javac C:\demo.java
C:\demo.java: error: unapplicable character for encoding Cp1252
System.out.println(C\addC\+e);
C:\demo.java: error: not a statement
System.out.println(C\addC\+e);
C:\demo.java: error: ';' expected
System.out.println(C\addC\+e);
3 errors
C:\practico>javac C:\demo.java
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C:\demo.java: error: ';' expected
System.out.println(C\addC\+e);
3 errors

```

2:54 PM | jpy-qinx-vgr

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Sunil Joshi is presenting

WRAPPER CLASSES

Fundamental type data	wrapper class name	conversion method from String to Fundamental data type
byte	Byte	public static byte parseByte(String)
short	Short	public static short parseShort(String)
int	Integer	public static int parseInt(String)
long	Long	public static long parseLong(String)
float	Float	public static float parseFloat(String)
double	Double	public static double parseDouble(String)
char	Character	-----
boolean	Boolean	public static boolean parseBoolean(String)

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CONTROL STRUCTURE

- **Conditional Statement**
 - if
 - if-else
 - switch
- **Looping Statement**
 - while
 - do-while
 - for

3:08 PM | jpy-qinx-vgr

Sunil Joshi, Jayashree Patil, 18 Abhishek Dhatriak, Tejas Ramteke, C. Ayush Kshatriya, 38, Pooja Sonawane, 21 others, You

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CONSTRUCTORS IN JAVA

- **Purpose**
 - to initialize the object without placing the default values
- **Types**
 - Default constructor
 - Parameterized constructor
 - overloaded constructor

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JAVA workshop DAY 5 24/09/2021

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Sunil Joshi is presenting

```
SOP
```

- class System
 - static PrintStream out=new PrintStream();
- class PrintStream
 - void println(...)
 - void print()

2:17 PM | mve-sqdt-ofj

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```
Instance method
```

- public float nextFloat();
- public String nextLine();

```
System.out.println("enter first num");  
int a = s.nextInt();  
System.out.println("enter 2 nnum");  
int b = s.nextFloat();  
System.out.println("enter first name");  
int a = s.nextInt();
```

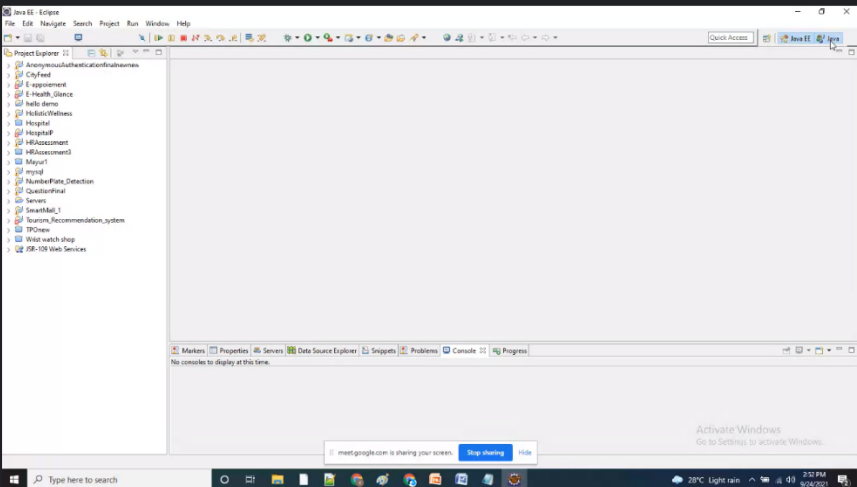
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Sunil Joshi is presenting



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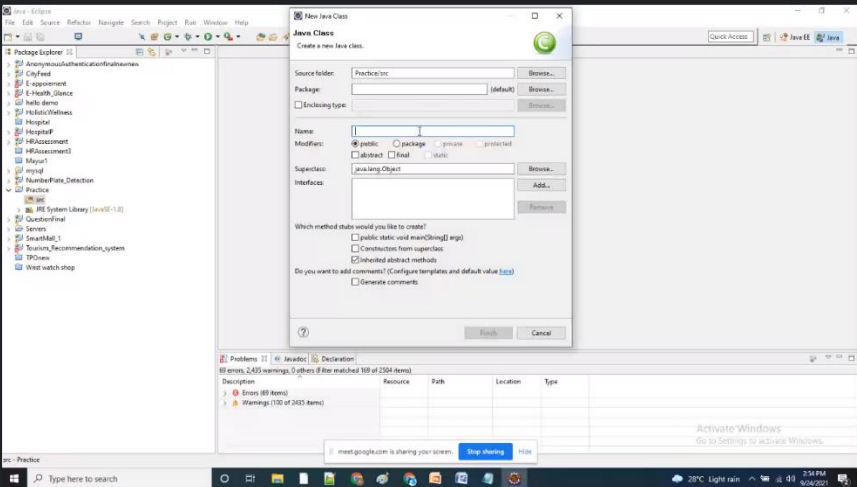
ENG IN 2:52 PM 24/09/2021

Sunil Joshi, 29-YASHODIP JADHAV, Janhvi Patil, 18 Abhishek Dhatrak, Tejas Ramteke, 08 Bhagyesh Benke, 18 others, You

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Sunil Joshi is presenting



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Sunil Joshi, 29-YASHODIP JADHAV, Janhvi Patil, 18 Abhishek Dhatrak, Tejas Ramteke, 08 Bhagyesh Benke, 17 others, You

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Sunil Joshi is presenting

```

import java.util.Scanner;

public class Demo {
    static String sub="java";
    static
    {
        String sub="java";
        System.out.println("Hello I m from static");
    }
    static
    {
        String sub="java";
        System.out.println("Hello I m from static");
    }

    void add()
    {
        Scanner s = new Scanner(System.in);
        System.out.println("Enter first num");
        int num1=s.nextInt();
        System.out.println("Enter second num");
        int num2=s.nextInt();

        int sum;
        public static void main(String[] args) {
            // TODO Auto-generated method stub
            System.out.println("Hello I m from main");
            Demo demo=new Demo();
            d.add();
        }
    }
}

```

3:11 PM | mve-sqdt-of

Participants: Siddhika Mahajan, 08 Bhagyes Benke, Sunil Joshi, 18 Abhishek Dhatrak, 19 Aditya Dthivar, 31 srushtee K.

19 Aditya Dthivar has raised a hand. Open queue

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Sunil Joshi is presenting

```

class Parent
{
    public void property()
    {
        System.out.println("Cash--land---gold---mobile");
    }
    public void marry()
    {
        System.out.println("ABC");
    }
}
class Child extends Parent
{
    public void marry()
    {
        System.out.println("ABC.....or---PQR");
    }
}

```

3:39 PM | mve-sqdt-of

Participants: Siddhika Mahajan, 08 Bhagyes Benke, Sunil Joshi, 29-YASHODIP J..., Tejas Ramteke, 31 srushtee K, 14 others, You.

In-call messages

Let everyone send messages

29-YASHODIP JADHAV 3:08 PM
Sir i had creat a personal AI assistance Like Alexa & Cortena only Using Python But Sir Now I Wanna do some advanced implements in it.....Sir How I implement a java in it

You 3:29 PM
<https://forms.gle/gRdGLA3i6EXfb5AF8> give attendance after the session

19 Aditya Dthivar 3:29 PM
No sir

08 Bhagyes Benke 3:34 PM
Sir, can you explain constructor and wrapper class in short?

Send a message to everyone

Admission status T...xlsx Show all

JAVA workshop Day 6 25/09/2021

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Sunil Joshi is presenting

INHERITANCE EXAMPLE

```
class Animal
{
    void eat()
    {
        System.out.println("eating...");
    }
}
class Dog extends Animal
{
    void bark()
    {
        System.out.println("barking...");
    }
}
class TestInheritance
{
    public static void main(String args[])
    {
        Dog d=new Dog();
        d.bark();
        d.eat();
    }
}
```

2:53 PM | sij-shnu-kqo

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METHOD OVERLOADING

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Sunil Joshi is presenting

```
class Test
{
    public void m1()
    {
        System.out.println("No arg");
    }
    public void m1(int i)
    {
        System.out.println("Integer arg");
    }
    public void m1(double d)
    {
        System.out.println("double arg");
    }
    public static void main(String[] args)
    {
        Test t = new Test();
        t.m1(); // No-arg
        t.m1(10); // in arg
        t.m1(10.5); // double arg
    }
}
```

3:15 PM | sij-shnu-kqo

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Sunil Joshi is presenting

METHOD OVERRIDING

```
class Parent
{
    public void property( )
    {
        System.out.println("Cash--land---gold--mobile");
    }
    public void marry()
    {
        System.out.println("ABC");
    }
}
class Child extends Parent
{
    public void marry()
    {
        System.out.println("ABC....or---PQR");
    }
}
```

om kayastha Sunil Joshi Sourav Gogoi

19 ADITYA DHIVAR 31 srushtee K 61 Adarsh Singh

08 08 Bhagyesh Benke 67 Madhura Vyavah... 17 Tejal Deokar

Tejas Ramteke 7 others You

3:19 PM | sij-shnu-kqo

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Sunil Joshi is presenting

```
public class Hello {
    void m1(char c)
    {
        System.out.println(c);
    }
    void m1(int x)
    {
        System.out.println(x);
    }
    void m1(int... arr)
    {
        System.out.println("hello");
    }
    public static void main(String args[])
    {
        m1('10');
    }
}
```

18 Abhishek Dhatrik Sunil Joshi Sourav Gogoi

om kayastha 31 srushtee K 19 ADITYA DHIVAR

08 08 Bhagyesh Benke 61 Adarsh Singh 17 Tejal Deokar

Tejas Ramteke 6 others You

3:40 PM | sij-shnu-kqo

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Sunil Joshi is presenting

```

class MyClass extends MyClass {
    void sum() {
        System.out.println("From MyClass class");
        System.out.println(100);
        System.out.println(100);
        sum();
    }
}

public class MyClass {
    public static void main(String[] args) {
        MyClass myClass = new MyClass();
        myClass.sum();
    }
}

```

3:41 PM | sij-shnu-kqo

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JAVA workshop day 7 27/09/2021

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Sunil Joshi is presenting

```

class ABC {
    int a=10,b=20;
    void sum() {
        int c=a+b;
        sap(c);
    }
}

class B extends ABC {
    float a=10.5,f=20.5f;
    void sum() {
        float c=a+b; // def
    }
}

```

2:52 PM | tqb-jbki-vgg

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28°C | 2:52 PM | 27/09/2021

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Sunil Joshi is presenting

BC

```

void sum()
{
  int a=10,b=20;
  c=a+b;
}

```

Original Method

DC1

```

void sum()
{
  float a=1.5f,b=2.5f;
  c=a+b;
}

```

DC2

```

void sum()
{
  char a='A',b='B';
  c=a+b;
}

```

overriden method

3:01 PM | tqb-jbki-vgg

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Sunil Joshi is presenting

ABSTRACT CLASS

- abstract class operation

```

{
  abstract void sum();
  abstract void op(int a, int b);
  abstract void draw();
  void show()
  {
    System.out.println("Hello");
  }
}

```

19 ADITYA DHIVAR has left the meeting

3:21 PM | tqb-jbki-vgg

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```

1 package System
2
3 public class Friday extends Light
4 {
5     int ap20;
6     void demo ()
7     {
8         System.out.println("An Exam base class");
9     }
10
11 void test ()
12 {
13     System.out.println("An Exam Friday");
14 }
15 }
16
17
18
19
20
21

```

3:40 PM | tqb-jbki-vvg

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Sunil Joshi

Sayali Shewale

Pooja Kothule

18 Abhishek Dhattrak

61 Adarsh Singh

om kayastha

36 akash Kahatriya

08 Bhagyesh Benke

Sourav Gogoi

59 - Rupak Shinde

7 others

You

meet.google.com/tqb-jbki-vvg?pli=1&authuser=0

Sunil Joshi is presenting

```

1 package abc
2
3 public class Prg extends Exam1
4 {
5     void demo ()
6     {
7         System.out.println("An Exam base");
8     }
9 }
10
11 public static void main(String[] args) {
12     // TODO Auto-generated method stub
13
14     Demo d=new Prg ();
15     d.demo ();
16 }
17
18
19
20
21
22
23
24
25

```

3:49 PM | tqb-jbki-vvg

Office Note - Impo...pdf | seminar ppt.pptx | FINANCIAL FRAU...pptx | 2.program.docx

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28°C | ENG IN | 3:49 PM | 27/09/2021

Sunil Joshi

Sayali Shewale

Pooja Kothule

18 Abhishek Dhattrak

61 Adarsh Singh

om kayastha

36 akash Kahatriya

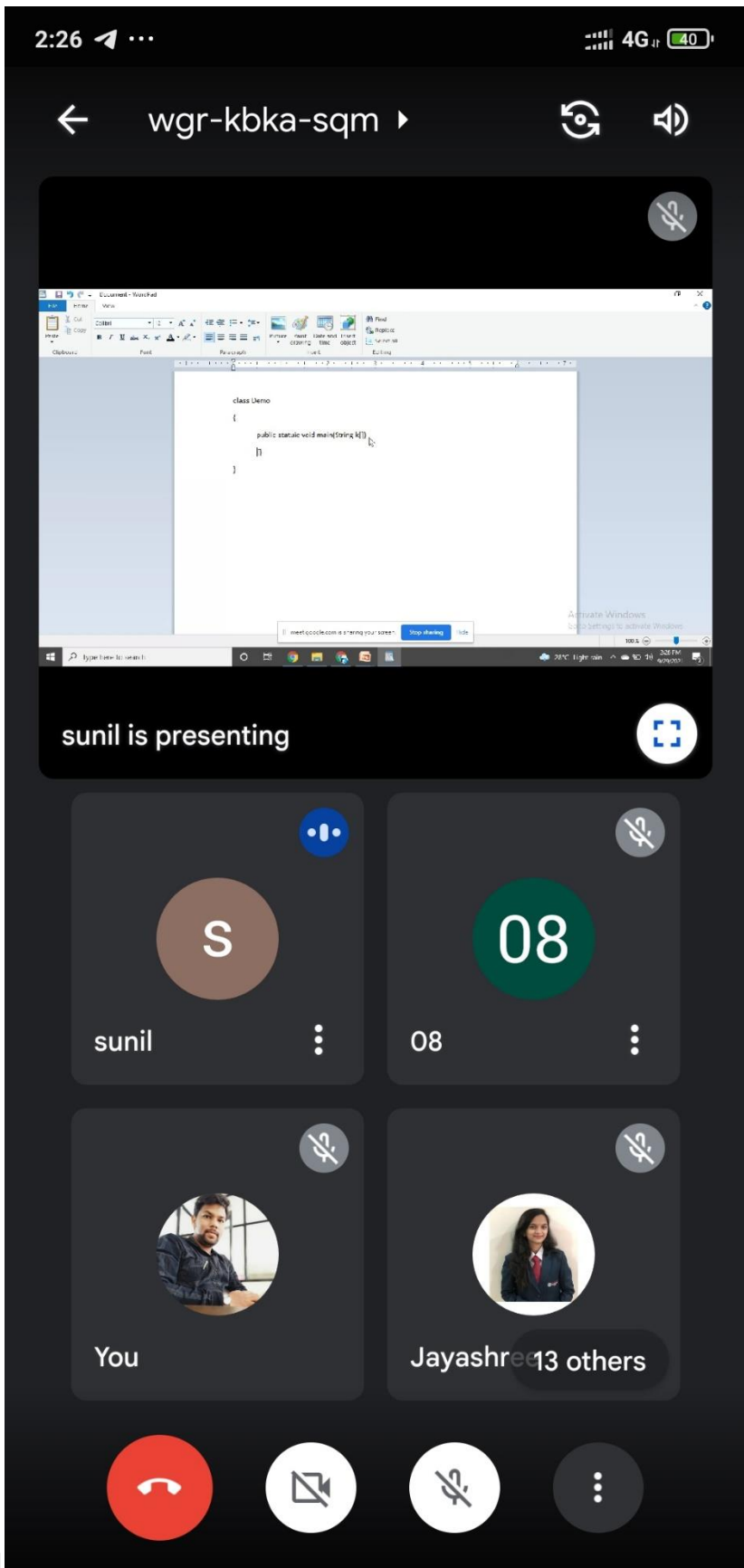
08 Bhagyesh Benke

Sourav Gogoi

59 - Rupak Shinde

7 others

You



2:34

4G 42

wgr-kbka-sqm

Wrapper Classes

Fundamental type data	wrapper class name	conversion method from String to Fundamental data type
byte	Byte	public static byte parseByte(String)
short	Short	public static short parseShort(String)
int	Integer	public static int parseInt(String)
long	Long	public static long parseLong(String)
float	Float	public static float parseFloat(String)
double	Double	public static double parseDouble(String)
char	Character	-----
boolean	Boolean	public static boolean parseBoolean(String)

sunil is presenting

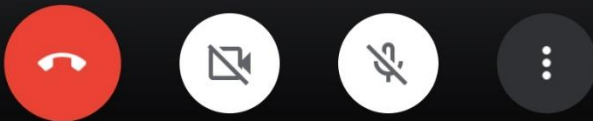


08

08

You

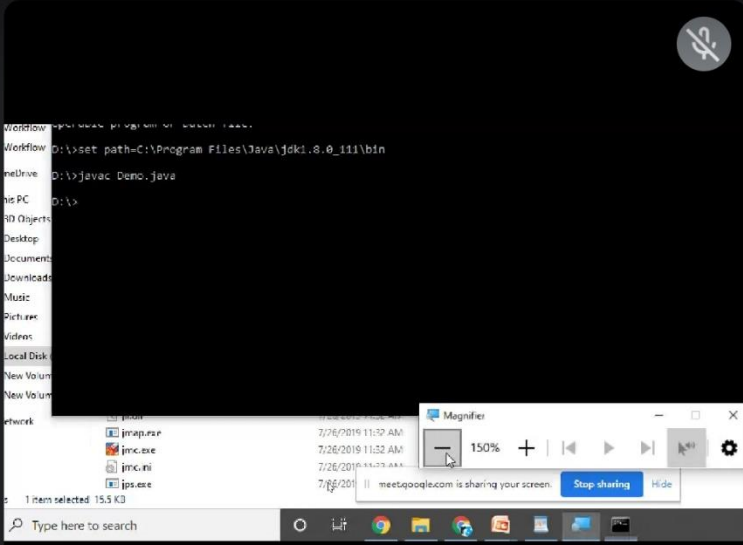
Jayashree 13 others



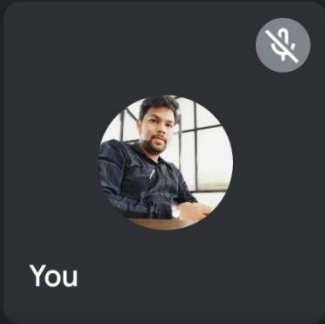
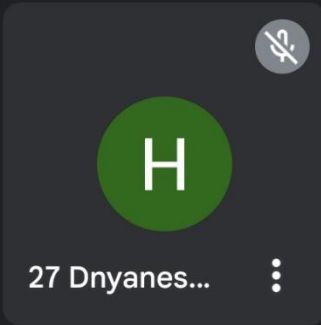
2:50

4G 46

wgr-kbka-sqm



sunil is presenting



2:52

4G 47

wgr-kbka-sqm

```
(C) Microsoft Corporation. All rights reserved.  
C:\Users\gaure>  
D:\>javac Demo.java  
"javac" is not recognized as an internal or external command,  
operable program or batch file.  
D:\>set path=C:\Program Files\Java\jdk1.8.0_111\bin  
D:\>javac Demo.java  
D:\>javac Demo.java  
D:\>javac Demo.java  
D:\>
```

sunil is presenting

S
sunil

H
27 Dnyanes...

You

Jayashree 13 others



3:04

4G 49

wgr-kbka-sqm

```
(c) Microsoft Corporation. All rights reserved.  
C:\Users\gaure>  
D:\>javac Demo.java  
"javac" is not recognized as an internal or external command,  
operable program or batch file.  
D:\>set path=C:\Program Files\Java\jdk1.8.0_111\bin  
D:\>javac Demo.java  
D:\>javac Demo.java  
D:\>javac Demo.java  
D:\>java
```

sunil is presenting

sunil

29-YASHODIP

29-YASHODIP JADHAV. and 5 more have joined

Call, Video, Mute, and More options icons

2:14

4G 33

wgr-kbka-sqm



Jayashree

29-YASHODIP

You

55 Aishwariya 13 others



Browser tabs: Fwd: Office Order- Conduc... Meet - yxo-efig-qme Meet - kqv-coda-ntx SE Attendance - Google For... SE Attendance (Responses) TE Attendance SPOS (Resp...

meet.google.com/yxo-efig-qme?pli=1&authuser=0

Sunil Joshi is presenting

- Application takes more memory space
- Application takes more execution time (because we are overriding defined method)
- Application performance is degraded

To overcome the above limitation of concrete classes, we use another concept called "Abstract Classes"

2:05 PM | yxo-efig-qme

System tray: 27°C Rain showers, 2:05 PM, 30/09/2021

Browser tabs: kqv-coda-ntx (2021-09-30 at 00:00) Meet - yxo-efig-qme SE Attendance - Google Forms SE Attendance (Responses) - Go... TE Attendance SPOS (Responses) -

meet.google.com/yxo-efig-qme?pli=1&authuser=0

Sunil Joshi is presenting

```
package packtest;

public class DemoClass implements SERESE {}
```

2:33 PM | yxo-efig-qme

System tray: 27°C, 2:33 PM, 30/09/2021

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Sunil Joshi is presenting

```
package packtoss;

public class DemoClass implements Circle {

    public void drawCircle() {
        System.out.println("Hellooo & m from circle");
    }

    public void drawSquare() {
        System.out.println("Hellooo & m from square");
    }

    public static void main(String args[]) {
        DemoClass d = new DemoClass();
        d.drawCircle();
        d.drawSquare();
    }
}
```

2:35 PM | yxo-efig-qme

Sunil Joshi, Yadnika Wagh, pooja kothule, Siddhika Mahajan, Jayashree Patil, 36 akash Kshatriya, 19 others, You

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Sunil Joshi is presenting

```
package packtoss;

public class DemoClass extends Circle implements Circle {

    public void drawCircle() {
        System.out.println("Hellooo & m from circle");
    }

    public void drawSquare() {
        System.out.println("Hellooo & m from square");
    }

    public static void main(String args[]) {
        DemoClass d = new DemoClass();
        d.drawCircle();
        d.drawSquare();
    }
}
```

2:39 PM | yxo-efig-qme

Sunil Joshi, Tejas Ramteke, pooja kothule, Siddhika Mahajan, Jayashree Patil, 36 akash Kshatriya, 19 others, You

Meeting URL: meet.google.com/yxo-efig-qme?pli=1&authuser=0

Sunil Joshi is presenting

LIST OF PREDEFINITE PACKAGES & ESSENTIAL PACKAGES

- java.io.* (File Programming)
- Java.applet.* (Applet Programming)
- Java.net.* (Network Programming)
- Java.util.* (Collection Framework)
- Java.text.* (Text Processing)

2:50 PM | yxo-efig-qme

Participants: Sunil Joshi, pooja kothule, Jayashree Patil, 36 akash Kshatriya, Siddhika Mahajan, Pooja Sonawane, 19 others, You.

Meeting URL: meet.google.com/yxo-efig-qme?pli=1&authuser=0

Sunil Joshi is presenting

```

classDiagram
    class BaseClass["Same Package Base Class"] {
        private int N1 = 10;
        int N2 = 10;
        protected int N3 = 10;
        public int N4 = 10;
    }
    class DerivedClass["Same Package Derived Class"] {
        N1
        N2
        N3
        N4
    }
    class OtherPackageDerivedClass["Other Package Derived Class"] {
        N1
        N2
        N3
        N4
    }
    class IndependentClass["Same Package Independent Class"] {
        N1
        N2
        N3
        N4
    }
    BaseClass <|-- DerivedClass
    BaseClass <|-- OtherPackageDerivedClass
  
```

2:55 PM | yxo-efig-qme

Participants: Sunil Joshi, pooja kothule, Jayashree Patil, Tejas Ramteke, Siddhika Mahajan, Pooja Sonawane, 19 others, You.