

# **OOP EXPERIMENT-1**

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**BATCH-20**

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**SUBMITTED TO- PROF. Kalluri Shareef Babu**

## EX-2A

```
// constructor
class student
{
    String name;
    int roll;
    void details()
    {
        System.out.println("My name is "+name);
        System.out.println("My roll number is "+roll);
    }
}
public class exe2a
{
    public static void main(String args[])
    {
        student s=new student();
        s.name="Java";
        s.roll=35;
        s.details();
    }
}
```

OUTPUT 19 TERMINAL PORTS

```
● PS C:\Users\<Anmol> > java exe2a
My name is Java
My roll number is 35
❖ PS C:\Users\<Anmol> > 
```

## EX-2A

```
class Student
{
    String name = "Java";
    int roll = 35;
    void details()
    {
        System.out.println("My name is " + name);
        System.out.println("My roll number is " + roll);
    }
}
public class exe2b
{
}
```

```

public static void main(String args[])
{
    Student s=new Student();
    s.details();
}
}

```

```

● PS C:\Users\<Anmol> > java exe2b
My name is null
My roll number is 0
❖ PS C:\Users\<Anmol> > 

```

## EXE-2C

```

//Creating a class Student with attributes name and roll number
class Student
{
    String name = "Java";
    int roll = 35;
    void details()
    {
        System.out.println("My name is " +name);
        System.out.println("My roll number is " +roll);
    }
}
public class exe2c
{
    public static void main(String args[])
    {
        Student s=new Student();
        s.name="Anmol";
        s.roll=37;
        s.details();
    }
}

```

OUTPUT

```

PS C:\Users\<Anmol> > javac exe2c.java
● PS C:\Users\<Anmol> > java exe2c
My name is Anmol
My roll number is 37
❖ PS C:\Users\<Anmol> > 

```

## EXE-2D

```
class Student
{
    private String name = "Java";
    private int roll = 35;
    void details()
    {
        String name ="Anmol";
        int roll =37;
        System.out.println("My name is " +name);
        System.out.println("My roll number is " +roll);
    }
}

public class exe2d
{
    public static void main(String args[])
    {
        Student s=new Student();
        //s.name="Damn";
        //s.roll=39;
        s.details();
    }
}
```

OUTPUT 21

TERMINAL

PORTS

```
PS C:\Users\<Anmol> > javac exe2D.java
● PS C:\Users\<Anmol> > javac exe2d.java
● PS C:\Users\<Anmol> > java exe2d
My name is Anmol
My roll number is 37
❖ PS C:\Users\<Anmol> > 
```

## EXE-2E

```
class Student
{
    private String name ="Java";
    private int roll =35;
    void details()
    {
        System.out.println("My name is " +name);
        System.out.println("My roll number is " +roll);
    }
}
```

```

public class exe2e
{
    public static void main(String args[])
    {
        Student s1=new Student();
        s1.details();
        Student s2=new Student();
        //s2.name="Anmol"; causes error
        //s2.roll=37; causes error
        s2.details();
    }
}

```

OUTPUT 21 TERMINAL PORTS

```

PS C:\Users\<Anmol> > java exe2e
My name is Anmol
My roll number is 37
My name is Anmol
My roll number is 37
❖ PS C:\Users\<Anmol> > 

```

## EXE-2F

```

class Student
{
    private String name;
    private int roll ;
    Student()
    {
        name="Java";
        roll=35;
    }
    void details()
    {
        System.out.println("My name is " +name);
        System.out.println("My roll number is " +roll);
    }
}
public class exe2f
{
    public static void main(String args[])
    {
        Student s1=new Student();
        s1.details();
    }
}

```

```
}
```

```
PS C:\Users\<Anmol> > java exe2f
My name is Anmol
My roll number is 37
PS C:\Users\<Anmol> > 
```

## EXE-2G

```
class Student
{
    private String name;
    private int roll ;
    Student()
    {
        name="Java";
        roll=35;
    }
    Student(String s,int n)
    {
        name=s;
        roll=n;
    }
    void details()
    {
        System.out.println("My name is " +name);
        System.out.println("My roll number is " +roll);
    }
}
public class exe2g
{
    public static void main(String args[])
    {
        Student s1=new Student();
        s1.details();
        Student s2=new Student("Anmol",37);
        s2.details();
    }
}
```

```
• PS C:\Users\<Anmol> > javac exe2g.java
• PS C:\Users\<Anmol> > java exe2g
My name is Java
My roll number is 35
My name is Anmol
My roll number is 37
❖ PS C:\Users\<Anmol> > |
```

## EXE-2H

```
//print hashcode of two objects
class stu
{
    String name;
    int roll;
}
public class exe2h
{
    public static void main(String args[])
    {
        stu s1=new stu();
        stu s2=new stu();
        System.out.println("Hashcode of s1:"+s1.hashCode());
        System.out.println("Hashcode of s2:"+s2.hashCode());
    }
}
```

OUTPUT 24 TERMINAL PORTS

```
• PS C:\Users\<Anmol> > java exe2h
Hashcode of s1:681842940
Hashcode of s2:1746572565
❖ PS C:\Users\<Anmol> > |
```