

OOP EXPERIMENT-1

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BATCH-20

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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  TERMINAL FAVORITES

- 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();
    }
}
```

The screenshot shows a terminal window with three tabs: OUTPUT (highlighted), TERMINAL, and PORTS. The OUTPUT tab displays the following command-line session:

```
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();
    }
}
```

```
2 PS C:\Users\<Anmol> > javac exe2g.java
2 PS C:\Users\<Anmol> > java exe2g
My name is Java
2 My roll number is 35
My name is Anmol
2 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> >
```