JAVA3 -SDL JAVA Assignment No. 4

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Roll No. 242

Div: D

Class: DSY Computer Engineering

Course: Java Programming

Problem Statement:

Write a program to print the names of students by creating a Student class. If no name is passed while creating an object of Student class, then the name should be "Unknown", otherwise the name should be equal to the String value passed while creating object of Student class.

Program:

```
/*Name:Kaveri Zanzane
 Roll No.242
*/
class Student
{
 String name;
 void Student() //non-parameterized
 {
 name="Unknown";
 }
 void Student(String n) //parameterized
```

```java
{
name=n;
}
void getName()
{
System.out.println(name);
}
}
public class Name_Passing {
public static void main(String args[])
{
Student student1 = new Student();
Student student2 = new Student();
student1.Student("Kaveri Zanzane"); //calling student method with passing
name as parameter
student2.Student(); //calling student method without any parameter
System.out.print("\n1st Student Name: ");
student1.getName();
System.out.print("2nd Student Name: ");
student2.getName();
}
}
```
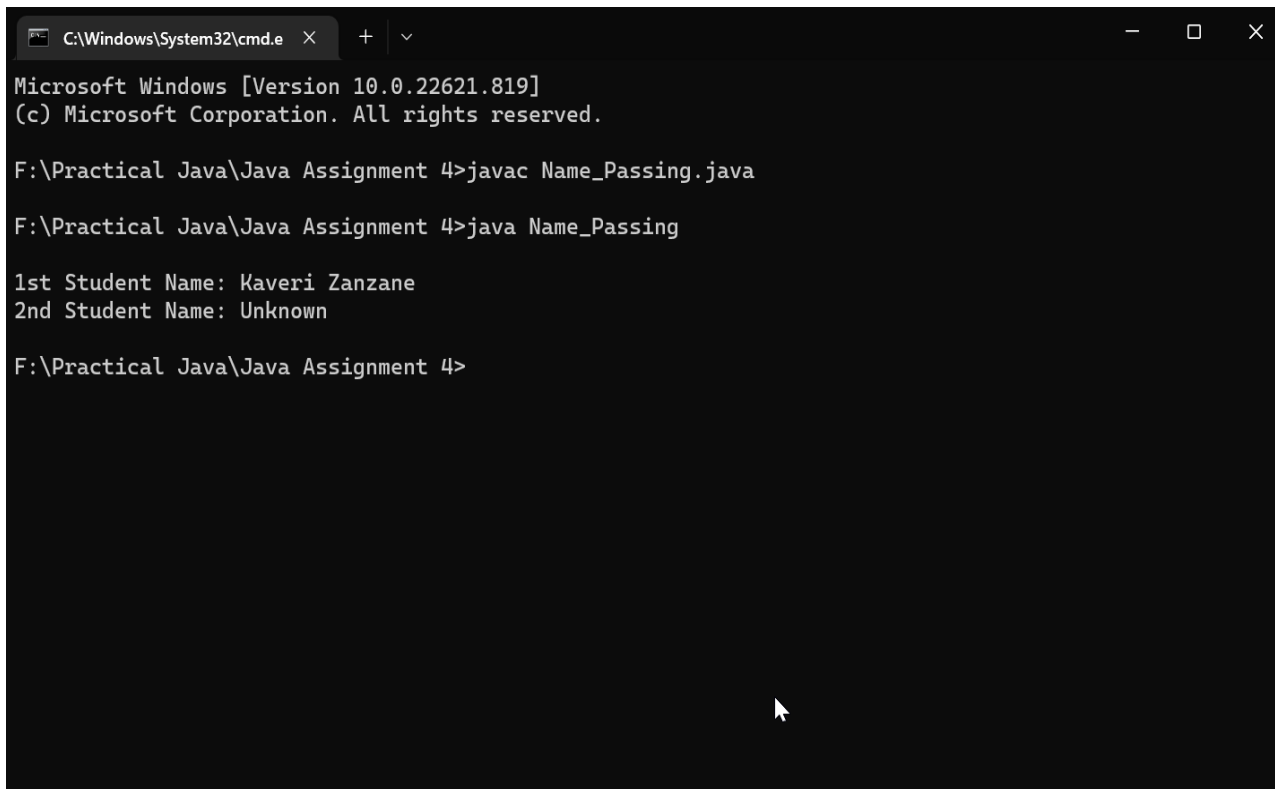
OUTPUT:

```
C:\Windows\System32\cmd.e  ×   +  ∨                                      —    □    ×

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F:\Practical Java\Java Assignment 4>javac Name_Passing.java

F:\Practical Java\Java Assignment 4>java Name_Passing

1st Student Name: Kaveri Zanzane
2nd Student Name: Unknown

F:\Practical Java\Java Assignment 4>
```

Write a program to implement constructor and Array of Object.

Program:

```java
import java.util.Scanner;

class Student
{
    String name;
    int Rollno;
    int Marks;

    Student(String name,int Rollno, int Marks)
    {
        this.name=name;
        this.Rollno=Rollno;
        this.Marks=Marks;
    }
    void getData()
    {
        System.out.println(name+"\t"+Rollno+"\t"+Marks);
    }
}
public class ArrayOfObject {
    public static void main(String args[])
    {
        Scanner sc = new Scanner(System.in);
```

```java
        String sname;
        int sroll,smarks;
            System.out.println("Name:Kaveri Zanzane \nRoll No.242\nDiv:D\n\n");
        System.out.println("Enter No of Students: ");
        int len=sc.nextInt();
        Student std[]=new Student[len];

        for(int i =0;i<len;i++)
        {
            System.out.println("\nStudent "+(i+1));
            System.out.println("Name: ");
            sname=sc.next();
            System.out.println("Roll No. : ");
            sroll=sc.nextInt();
            System.out.println("Marks: ");
            smarks=sc.nextInt();
            std[i] = new Student(sname,sroll,smarks);

        }
        //displaying student details by calling getData method
        System.out.println("\nName\tRoll\tMarks");
        for(int i =0;i<len;i++)
        {
            std[i].getData();
        }
    }
}
```

OUTPUT:

```
C:\Windows\System32\cmd.e  X    +   ∨                                                    —  □  ×

Microsoft Windows [Version 10.0.22621.819]
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F:\Practical Java\Java Assignment 4>javac ArrayOfObject.java

F:\Practical Java\Java Assignment 4>java ArrayOfObject
Name:Kaveri Zanzane
Roll No.242


Enter No of Students:
4

Student 1
Name:
Kaveri
Roll No. :
1
Marks:
97

Student 2
Name:
Isha
Roll No. :
2
Marks:
80

Student 3
```

```
C:\Windows\System32\cmd.e  X    +   ∨                                                    —  □  ×
Name:
Isha
Roll No. :
2
Marks:
80

Student 3
Name:
Neha
Roll No. :
3
Marks:
75

Student 4
Name:
Sanika
Roll No. :
4
Marks:
85

Name    Roll    Marks
Kaveri  1       97
Isha    2       80
Neha    3       75
Sanika  4       85

F:\Practical Java\Java Assignment 4>
```

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