NAME - SHUBHAM KUMAR

Introduction to Java 1 Exercise

1. Write a class with FirstName, LastName & age field. Print Firstname, LastName & age using static block, static method & static variable respectively.

```
🗾 que1.java 🗙
 1 package Que1;
        static String firstName = "Shubham";
        static String lastName = "Kumar";
       static int age = 24;
 70
       private static void print(){
           System.out.println("In static method");
           System.out.println("Shubham Kumar 24");
110
           System.out.println("In static block");
           System.out.println("Shubham Kumar 24");
        public static void main(String[] args) {
169
            System.out.println("In main");
           System.out.println(firstName + " " + lastName + " " + age);
           print();
```

Output:

```
E Console ×

<terminated> que1 [Java Application] /usr/eclipse/plugins/org.eclipse.justj.openjdk.hotspot.jre.full.linux.

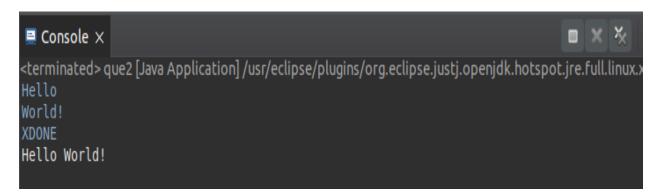
In static block
Shubham Kumar 24

In main
Shubham Kumar 24

In static method
Shubham Kumar 24
```

2. Write a program to read user input until user writes XDONE and then show the entered text by the user on command line

Output



3. Write a java program to show following menu to the user:

******Menu******

- 1. Calculate Area of Circle
- 2. Calculate Circumference of a Circle
- 3. Exit.

Choose an option (1-3):

Take radius as user input.

Hint: Use Switch statement to act on the menu. Also area and circumference methods should be static

```
static void area(float r) {
    float c = (float) (3.14*r*r);
    System.out.println("Area of Circle: " +c);
}
static void circumference(float r) {
    float c = (float) (2*3.14*r);
    System.out.println("Circumference of Circle: " +c);
}
System.out.println("Circumference of Circle: " +c);
}
```

Output

```
Console x

<terminated> que3 [Java Application] /usr/eclipse/plugins/org.eclipse.justj.openjdk.hotspot.jre.full.linux.x
1. Area of Circle
2. Circumference of Circle
3. Exit
Enter Choice :
1
Enter Radius of Circle :
2
Area of Circle: 12.56
```

```
Console ×

<terminated > que3 [Java Application] /usr/eclipse/plugins/org.eclipse.justj.openjdk.hotspot.jre.full.linux.x

1. Area of Circle
2. Circumference of Circle
3. Exit
Enter Choice :
2
Enter Radius of Circle :
2
Circumference of Circle :
2
```

```
Console ×

<terminated > que3 [Java Application] /usr/eclipse/plugins/org.eclipse.justj.openjdk.hotspot.jre.full.linux

1. Area of Circle

2. Circumference of Circle

3. Exit
Enter Choice :

3
```

- 4. Create a two dimensional array of integers and display:
 - a. sum of all elements of each column
 - b. sum of all elements of each row

Output

```
Console ×

<terminated> question4 [Java Application] /usr/eclipse/plugins/org.eclipse.justj.openjdk.hotspot.jre.full.l
Enter Row Size :

2
Enter Column Size :

2
Enter Array Value :

1
2
3
4
Array
1 2
3 4
Sum of 1 Column : 4
Sum of 2 Column : 6
Sum of 1 Row :3
Sum of 2 Row :7
```

5. Create a class named Employee with fields firstname, lastname, age and designation.

The class should:

- a. have all types of constructors to initialize the object
- b. class should also have setter methods to update a particular field
- c. Override its toString method to display a meaningful message using all these fields.

```
public String getLastName()

{
    return lastName;
}

public int getAge()

freturn age;

public string getDesignation() {
    return designation;

    return age;

    return age
```

```
△S9● public String toString()
60 {
61    return firstName + " " + lastName + " " + age+" "+designation;
62 }
63 }
64 public class que5 {
65● public static void main(String args[]) {
66    employee emp = new employee();
67    System.out.println(emp.toString());
68    emp = new employee("Shubham", "Kumar", 24, "SE");
69    System.out.println(emp.toString());
70    employee emp1 = new employee(emp);
71    System.out.println(empl.toString());
72  }
73
74 }
75
```

Output:

