

## QUESTIONS (Programs) -

### QUESTION 1:

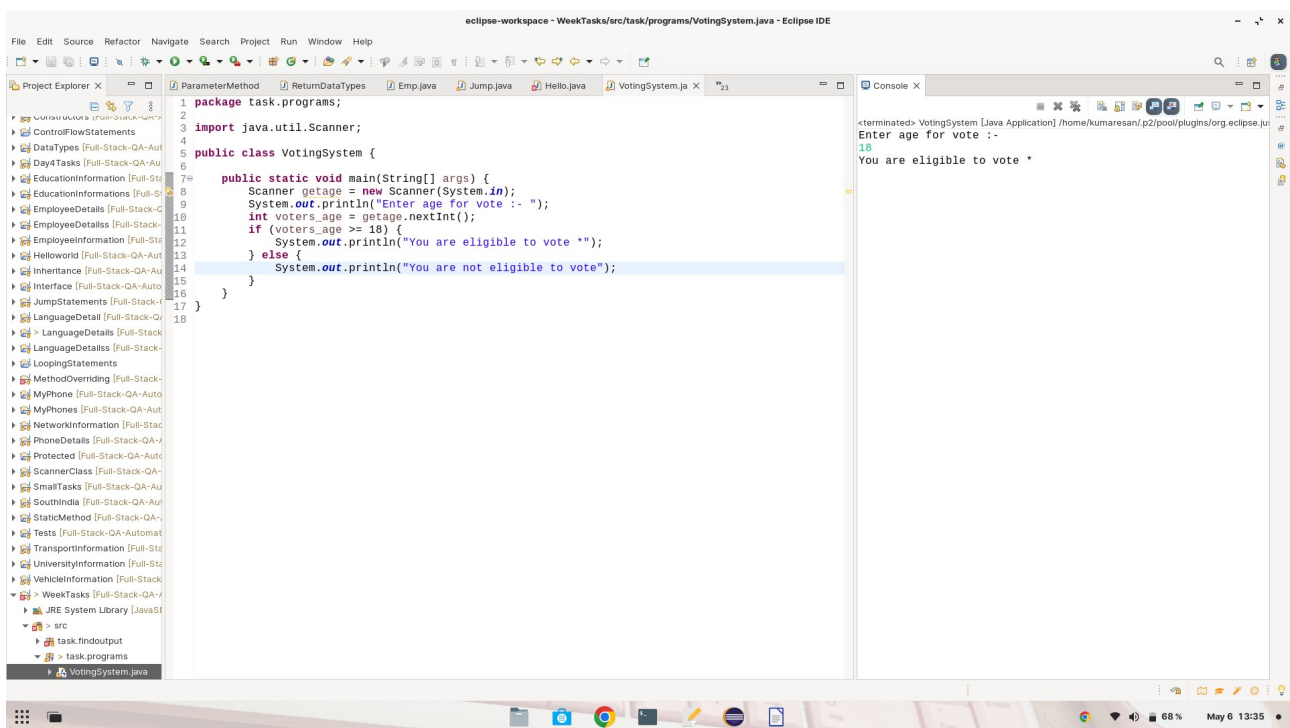
**Description:** Write Java program to allow the user to input his/her age.

Then the program will show if the person is eligible to vote.

A person who is eligible to vote must be older than or equal 1 to 18 years old.

**Program & Output :-**

**CASE 1 : (if eligible to vote) -**



The screenshot shows the Eclipse IDE interface. The main editor displays a Java file named `VotingSystem.java` with the following code:

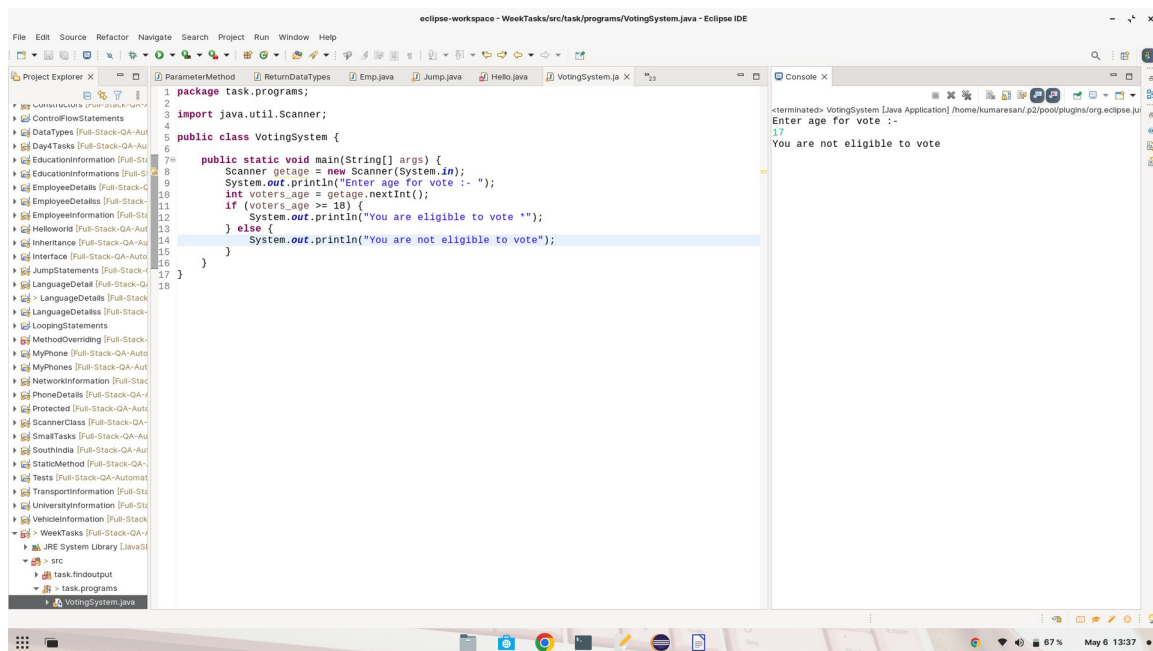
```
1 package task.programs;
2
3 import java.util.Scanner;
4
5 public class VotingSystem {
6
7     public static void main(String[] args) {
8         Scanner getage = new Scanner(System.in);
9         System.out.println("Enter age for vote :- ");
10        int voters_age = getage.nextInt();
11        if (voters_age >= 18) {
12            System.out.println("You are eligible to vote *");
13        } else {
14            System.out.println("You are not eligible to vote");
15        }
16    }
17 }
18
```

The console on the right shows the output of the program:

```
<terminated> VotingSystem [Java Application] /home/kumaresan/p2/pool/plugins/org.eclipse.ju
Enter age for vote :- 
18
You are eligible to vote *
```

The Project Explorer on the left shows the project structure, including the `task.programs` package and the `VotingSystem.java` file.

## CASE 2 : (if not eligible to vote) -



```
1 package task.programs;
2
3 import java.util.Scanner;
4
5 public class VotingSystem {
6
7     public static void main(String[] args) {
8         Scanner getage = new Scanner(System.in);
9         System.out.println("Enter age for vote :- ");
10        int voters_age = getage.nextInt();
11        if (voters_age >= 18) {
12            System.out.println("You are eligible to vote");
13        } else {
14            System.out.println("You are not eligible to vote");
15        }
16    }
17 }
18
```

Console Output:

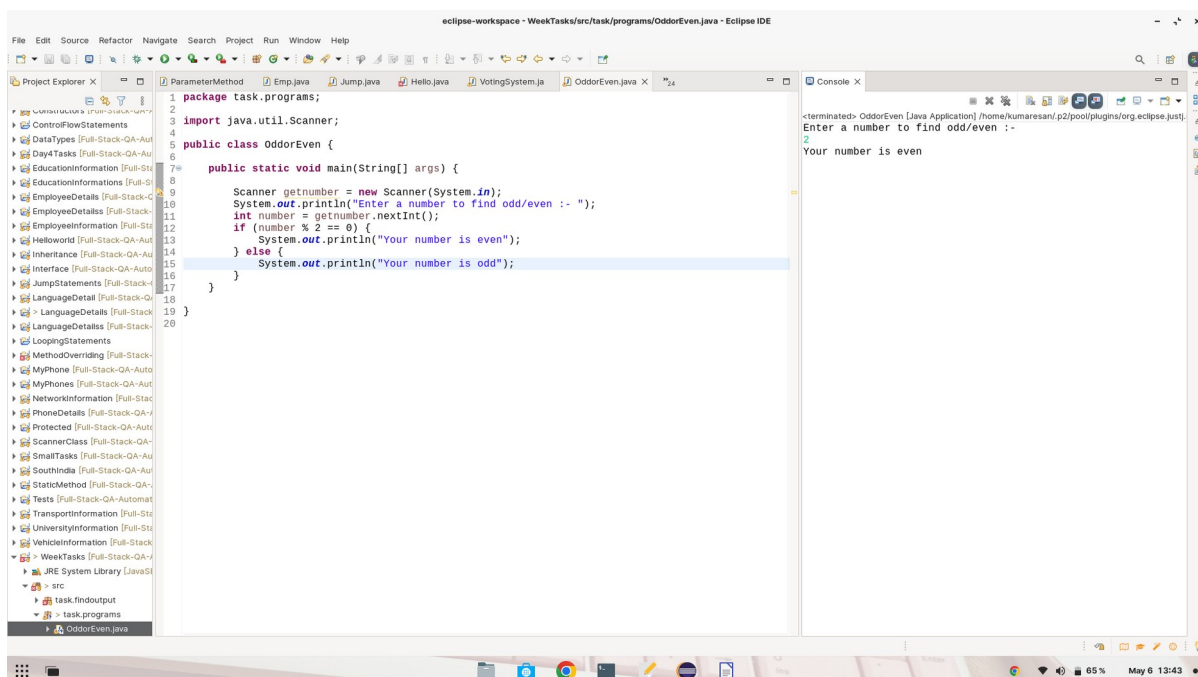
```
<terminated> VotingSystem [Java Application] /home/kumaresan/p2/pool/plugins/org.eclipse.jdt
Enter age for vote :-
17
You are not eligible to vote
```

## QUESTION 2:

**Description:** Write a program to find even or odd number

**Program & Output :-**

## CASE 1 : (if even number) -

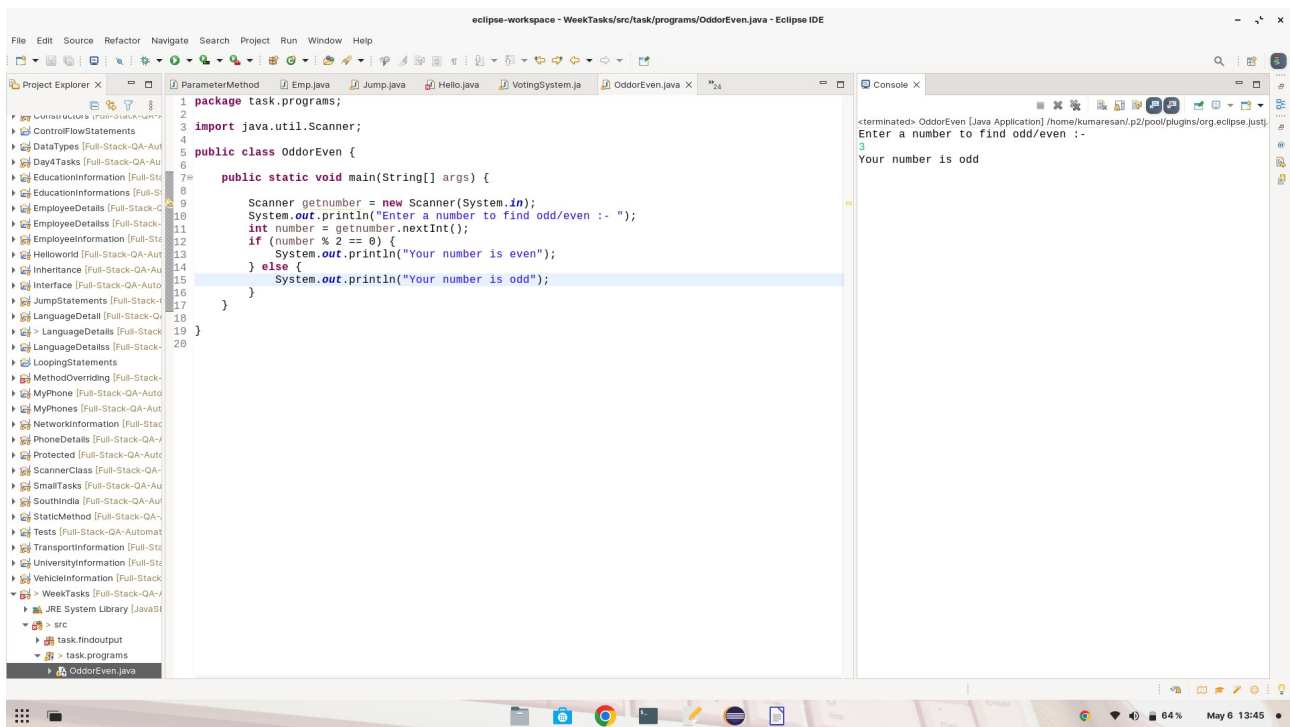


```
1 package task.programs;
2
3 import java.util.Scanner;
4
5 public class OddorEven {
6
7     public static void main(String[] args) {
8         Scanner getnumber = new Scanner(System.in);
9         System.out.println("Enter a number to find odd/even :- ");
10        int number = getnumber.nextInt();
11        if (number % 2 == 0) {
12            System.out.println("Your number is even");
13        } else {
14            System.out.println("Your number is odd");
15        }
16    }
17 }
18
19
20
```

Console Output:

```
<terminated> OddorEven [Java Application] /home/kumaresan/p2/pool/plugins/org.eclipse.jdt
Enter a number to find odd/even :-
2
Your number is even
```

## CASE 2 : (if odd number) -



The screenshot displays the Eclipse IDE interface. The Project Explorer on the left shows a project named 'WeekTasks' with a package 'task.programs'. The main editor window shows the source code for 'OddorEven.java'. The code uses a Scanner to take input and an if-else statement to check if the number is even or odd. The Console window on the right shows the program's execution output.

```
1 package task.programs;
2
3 import java.util.Scanner;
4
5 public class OddorEven {
6
7     public static void main(String[] args) {
8
9         Scanner getnumber = new Scanner(System.in);
10        System.out.println("Enter a number to find odd/even :- ");
11        int number = getnumber.nextInt();
12        if (number % 2 == 0) {
13            System.out.println("Your number is even");
14        } else {
15            System.out.println("Your number is odd");
16        }
17    }
18 }
19
20 }
```

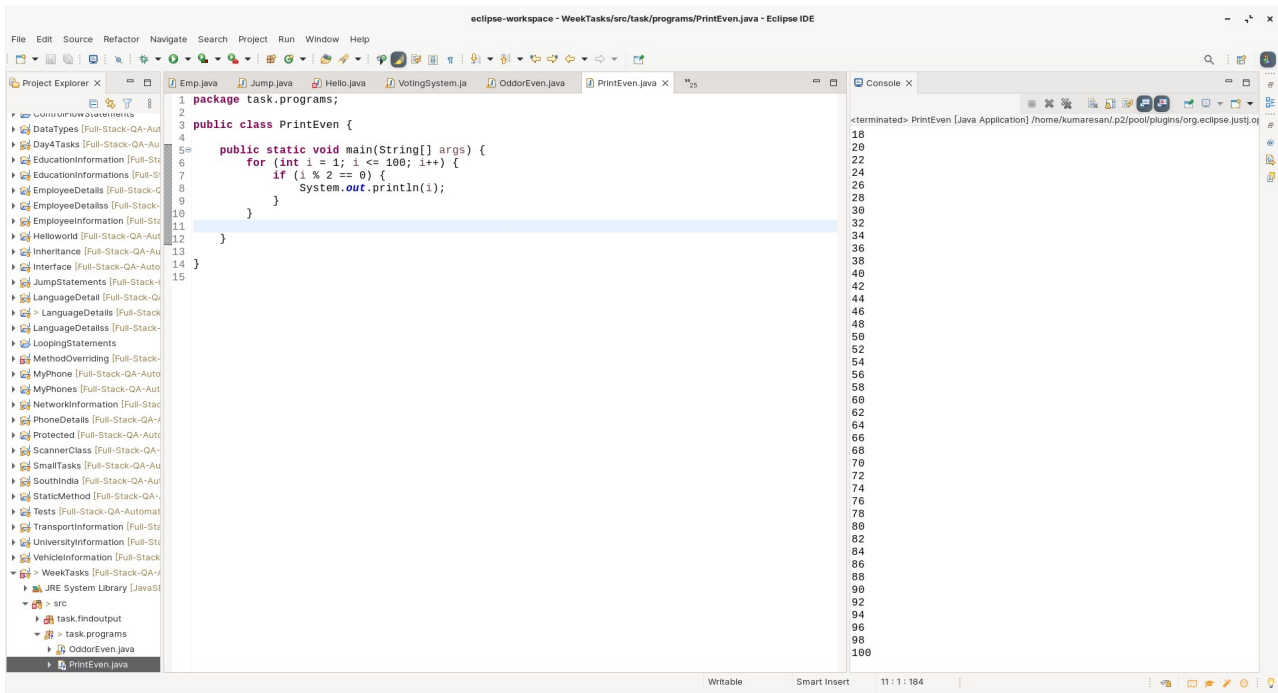
Console Output:

```
<terminated> OddorEven [Java Application] /home/kumaresan/p2/pool/plugins/org.eclipse.justi
Enter a number to find odd/even :-
3
Your number is odd
```

## QUESTION 3:

**Description: Write a program to print even number from 1 to 100**

**Program & Output :-**



The screenshot shows the Eclipse IDE with a Java project named 'WeekTasks'. The 'src' folder contains a package 'task.programs'. The file 'PrintEven.java' is open, showing the following code:

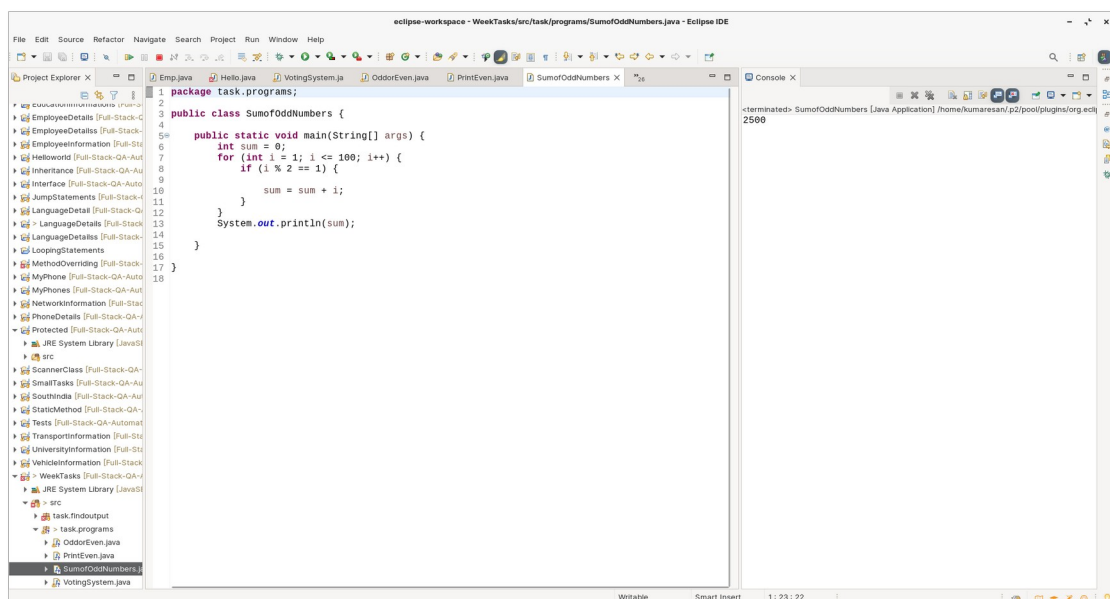
```
1 package task.programs;
2
3 public class PrintEven {
4
5     public static void main(String[] args) {
6         for (int i = 1; i <= 100; i++) {
7             if (i % 2 == 0) {
8                 System.out.println(i);
9             }
10        }
11    }
12 }
13
14
15
```

The console output shows the even numbers from 18 to 100, indicating that the program is running correctly.

## QUESTION 4:

**Description: Find the sum of odd number 1 to 100**

**Program & Output :-**



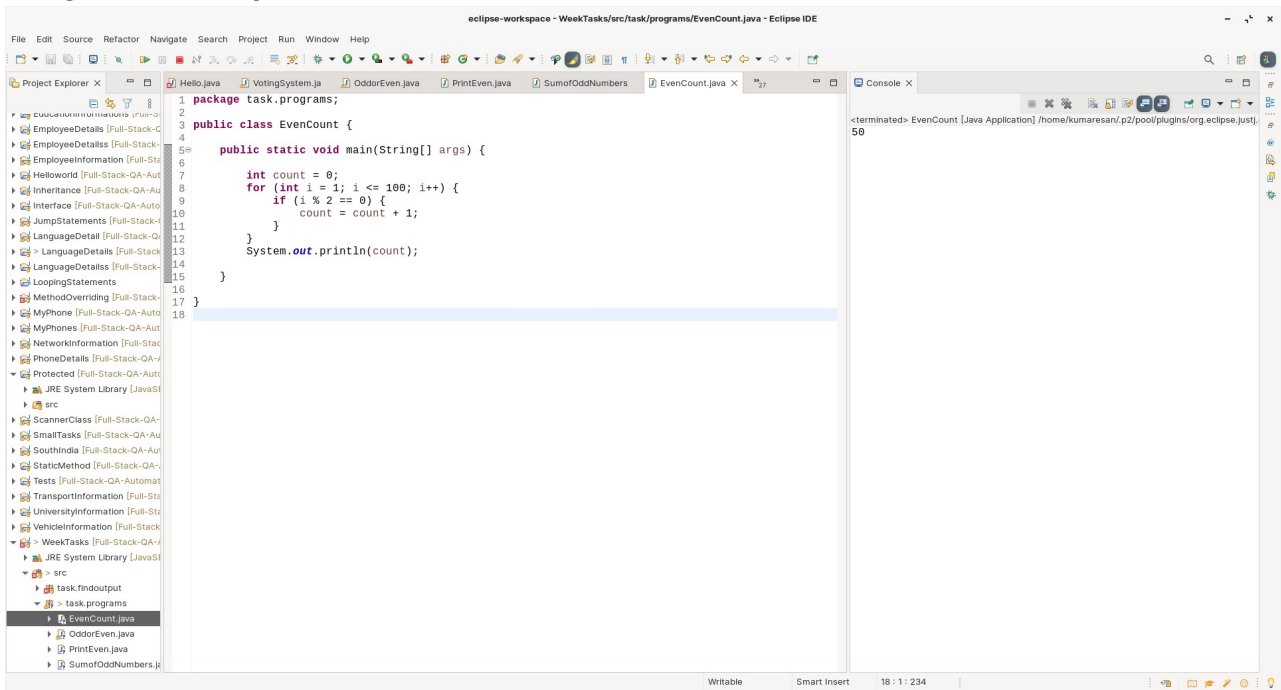
The screenshot shows the Eclipse IDE with a Java project named 'WeekTasks'. The 'src' folder contains a package 'task.programs'. The file 'SumOfOddNumbers.java' is open, showing the following code:

```
1 package task.programs;
2
3 public class SumOfOddNumbers {
4
5     public static void main(String[] args) {
6         int sum = 0;
7         for (int i = 1; i <= 100; i++) {
8             if (i % 2 == 1) {
9                 sum = sum + i;
10            }
11        }
12        System.out.println(sum);
13    }
14 }
15
16
17
18
```

The console output shows the sum of odd numbers from 1 to 100, which is 2500, indicating that the program is running correctly.

## QUESTION 5:

**Description: Count of even number 1 to 100**  
**Program & Output :-**



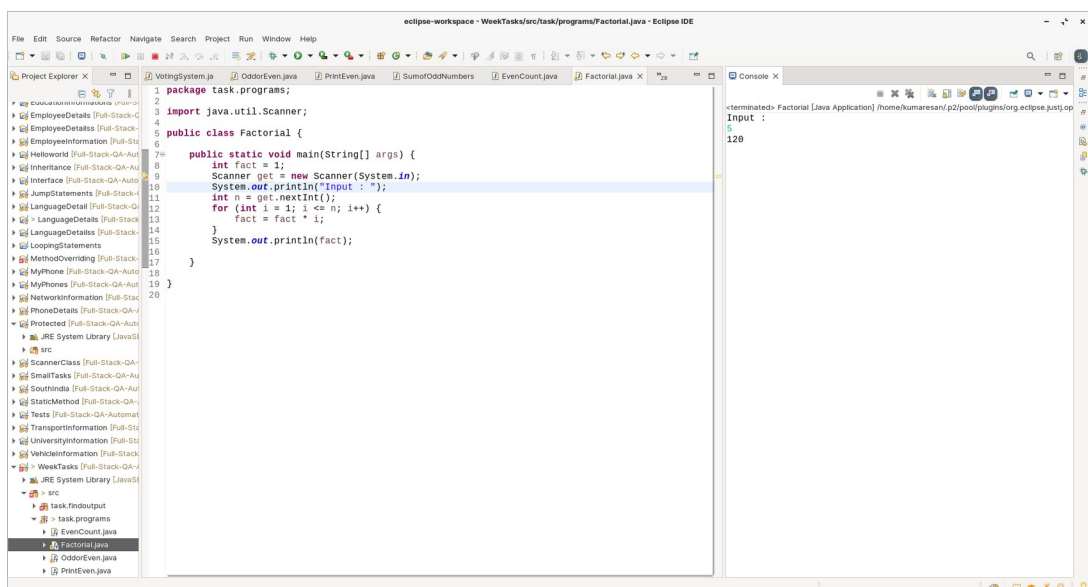
The screenshot shows the Eclipse IDE with the 'EvenCount.java' file open. The code is as follows:

```
1 package task.programs;
2
3 public class EvenCount {
4
5     public static void main(String[] args) {
6
7         int count = 0;
8         for (int i = 1; i <= 100; i++) {
9             if (i % 2 == 0) {
10                 count = count + 1;
11             }
12         }
13         System.out.println(count);
14     }
15 }
16
17
18
```

The console output on the right shows: <terminated> EvenCount [Java Application] /home/kumaresan/p2/pool/plugins/org.eclipse.justi. 50

## QUESTION 6:

**Description: Write a program to find the factorial of a number.**  
**Program & Output :-**



The screenshot shows the Eclipse IDE with the 'Factorial.java' file open. The code is as follows:

```
1 package task.programs;
2
3 import java.util.Scanner;
4
5 public class Factorial {
6
7     public static void main(String[] args) {
8
9         int fact = 1;
10        Scanner get = new Scanner(System.in);
11        System.out.println("Input : ");
12        int n = get.nextInt();
13        for (int i = 1; i <= n; i++) {
14            fact = fact * i;
15        }
16        System.out.println(fact);
17    }
18 }
19
20
```

The console output on the right shows: <terminated> Factorial [Java Application] /home/kumaresan/p2/pool/plugins/org.eclipse.justi. op  
Input :  
5  
120