

## Week 4

1. Write a java program to check whether the given number is odd or even.

### Program:

```
package week4;  
public class evenodd {  
    public static void main(String args[]) {  
        int num=14;  
        if(num%2==0){  
            System.out.println("Even.");  
        }  
        else{  
            System.out.println("Odd");  
        }  
    }  
}
```

### Output:



**2. Write a java program to find the largest number among the three numbers.**

**Program:**

```
package week4;

public class largestinthree{

    public static void main(String[] args){

        int a=256, b=43, c=172;

        int largest=a>b? (a>c? a:c):(b>c? b:c);

        if(largest==a){

            System.out.print("a is largest with value: "+a);

        }

        else if(largest==b){

            System.out.print("b is largest with value: "+b);

        }

        else{

            System.out.print("c is largest with value: "+c);

        }

    }

}
```

**Output:**



The screenshot shows the Eclipse IDE's output window. The title bar says "Output - largestinthree.java". The output pane displays the text "a is largest with value: 256".

**3. Write a java program to that takes a number as input and prints its multiplication table upto 10.**

**Program:**

```
package week4;

import java.util.Scanner;

public class table{

    public static void main(String[] args){

        Scanner input=new Scanner(System.in);

        System.out.print("Enter a positive Integer: ");

        int n=input.nextInt();

        for(int i=1;i<=10;i++){

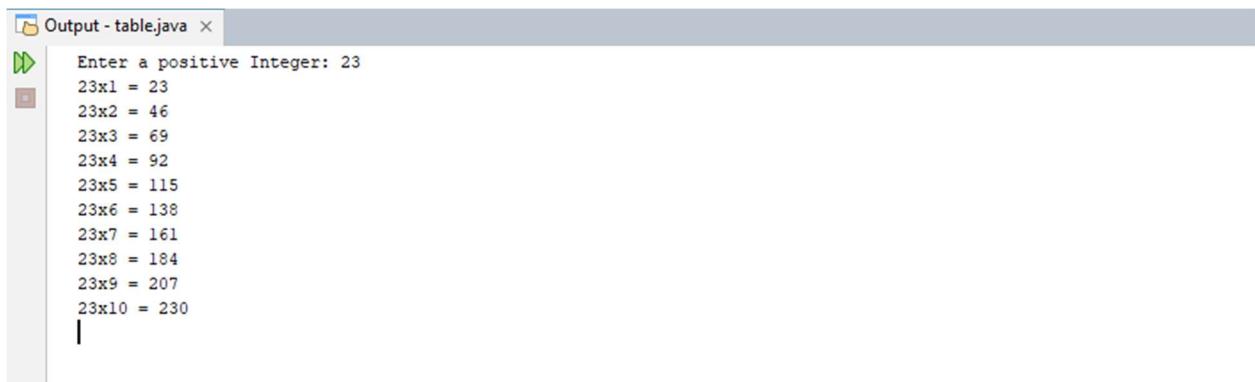
            System.out.println(n+"x"+i+" = "+(n*i));

        }

    }

}
```

**Output:**



The screenshot shows a Java IDE window titled "Output - table.java". The code has been run, and the console output is displayed. The user entered the number 23, and the program printed its multiplication table from 1 to 10.

```
Output - table.java ×
▶ Enter a positive Integer: 23
23x1 = 23
23x2 = 46
23x3 = 69
23x4 = 92
23x5 = 115
23x6 = 138
23x7 = 161
23x8 = 184
23x9 = 207
23x10 = 230
```

**4. Write a java program to calculate the sum of the following series:**

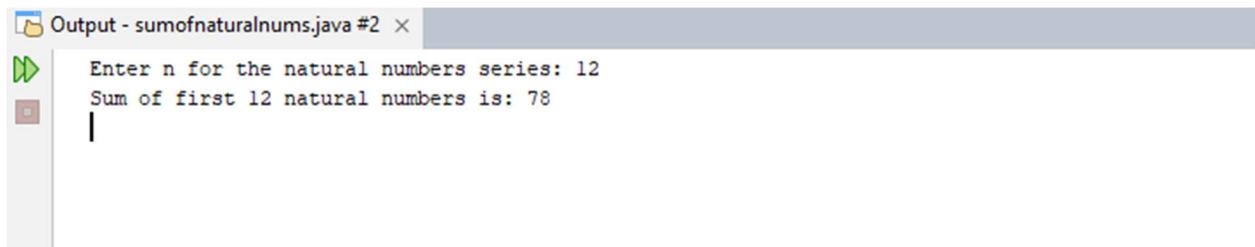
$$1+2+3+4+\dots\dots\dots+N$$

**Program:**

```
package week4;
import java.util.Scanner;
public class sumofnaturalnums{
    public static void main(String[] args){
        Scanner input=new Scanner(System.in);

        System.out.print("Enter n for the natural numbers series: ");
        int n=input.nextInt();
        int sum=n*(n+1)/2;
        System.out.println("Sum of first "+n+" natural numbers is: "+sum);
    }
}
```

**Output:**



```
Output - sumofnaturalnums.java #2 ×
▶ Enter n for the natural numbers series: 12
▶ Sum of first 12 natural numbers is: 78
```

**5. Write a java program to take a number, divide it by 2 and print the result until the number becomes less than 10.**

**Program:**

```
package week4;

import java.util.Scanner;

public class divby2{

    public static void main(String[] args){

        Scanner input=new Scanner(System.in);

        System.out.print("Enter an Integer: ");

        double num=input.nextDouble();

        double res=num/2;

        while(res>10){

            System.out.println(res);

            res/=2;

        }

    }

}
```

**Output:**



```
Output - divby2.java x
▶ Enter an Integer: 75
37.5
18.75
```