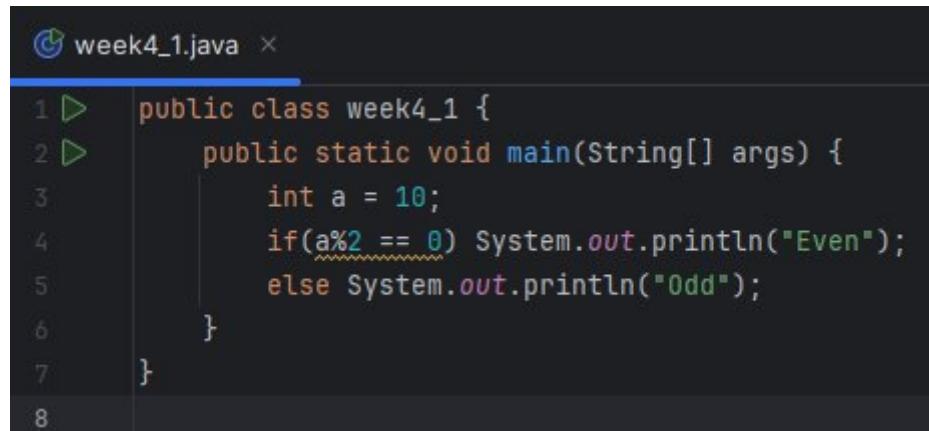


# WEEK 4

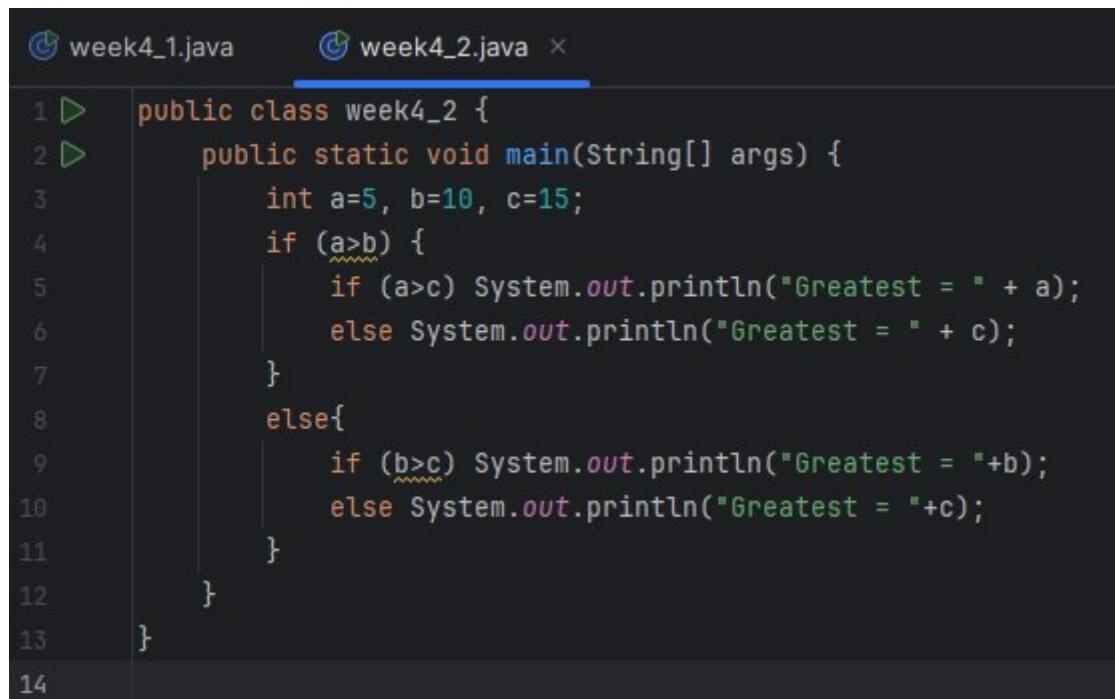
1. Write a java program to check whether the given number is odd or even.



```
week4_1.java
1 public class week4_1 {
2     public static void main(String[] args) {
3         int a = 10;
4         if(a%2 == 0) System.out.println("Even");
5         else System.out.println("Odd");
6     }
7 }
8
```

```
Even
Process finished with exit code 0
```

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



```
week4_1.java    week4_2.java
1 public class week4_2 {
2     public static void main(String[] args) {
3         int a=5, b=10, c=15;
4         if (a>b) {
5             if (a>c) System.out.println("Greatest = " + a);
6             else System.out.println("Greatest = " + c);
7         }
8         else{
9             if (b>c) System.out.println("Greatest = "+b);
10            else System.out.println("Greatest = "+c);
11        }
12    }
13 }
14
```

```
Greatest = 15
Process finished with exit code 0
```

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

# WEEK 4

```
week4_1.java week4_2.java week4_3.java ×
1 import java.util.Scanner;
2
3 ▷ public class week4_3 {
4 ▷     public static void main(String[] args) {
5         Scanner sc = new Scanner(System.in);
6         System.out.println("Enter the number :");
7         int n = sc.nextInt();
8         for (int i = 1; i <= 10; i++)
9             System.out.printf("%d x %d = %d\n", n, i, n*i);
10    }
11 }
12
```

```
Enter the number :
5
5 x 1 = 5
5 x 2 = 10
5 x 3 = 15
5 x 4 = 20
5 x 5 = 25
5 x 6 = 30
5 x 7 = 35
5 x 8 = 40
5 x 9 = 45
5 x 10 = 50
```

4. Write a Java program to calculate the sum of following series:  
 $1 + 2 + 3 + 4 + \dots + N.$

# WEEK 4

```
week4_1.java week4_2.java week4_3.java week4_4.java
1 import java.util.Scanner;
2
3 public class week4_4 {
4     public static void main(String[] args) {
5         Scanner sc = new Scanner(System.in);
6         System.out.println("Enter N :");
7         int n = sc.nextInt();
8         int sum = 0;
9         for (int i = 1; i<=n; i++) sum += i;
10        System.out.println("Result : "+ sum);
11    }
12 }
13 |
```

```
Enter N :
10
Result : 55
```

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

```
week4_1.java week4_2.java week4_3.java week4_4.java
1 import java.util.Scanner;
2
3 public class week4_5 {
4     public static void main(String[] args) {
5         Scanner sc = new Scanner(System.in);
6         System.out.println("Enter number :");
7         int n = sc.nextInt();
8         while(n>10){
9             n/=2;
10            System.out.println(n);
11        }
12    }
13 }
14 |
```

```
Enter number :
50
25
12
6
```

# WEEK 4

6. Write a Java program to check whether a given character is a vowel or consonant.

```
week4_6.java ×

1 import java.util.Scanner;
2
3 public class week4_6 {
4     public static void main(String[] args) {
5         Scanner sc = new Scanner(System.in);
6         System.out.println("Enter char :");
7         char c = sc.nextLine().charAt(0);
8         c = Character.toUpperCase(c);
9         if (c == 'A' || c == 'E' || c == 'I' || c == 'O' || c == 'U')
10             System.out.println("Vowel");
11         else System.out.println("Consonant");
12     }
13 }
14
```

```
Enter char :
a
Vowel
```

7. Write a Java program to find the smallest number among four given numbers.

```
week4_6.java      week4_7.java ×

1 public class week4_7 {
2     public static void main(String[] args) {
3         int a=5,b=100,c=15,d=20;
4         int max = a;
5         if(max<b) max=b;
6         if(max<c) max=c;
7         if(max<d) max=d;
8         System.out.println("Greatest = "+max);
9     }
10 }
11
```

```
Greatest = 100

Process finished with exit code 0
```

# WEEK 4

8. Write a Java program to calculate the sum of all even numbers from 1 up to a given number N.

```
week4_6.java week4_7.java week4_8.java
1 import java.util.Scanner;
2
3 public class week4_8 {
4     public static void main(String[] args) {
5         Scanner sc = new Scanner(System.in);
6         System.out.println("Enter N :");
7         int n = sc.nextInt();
8         int sum = 0;
9         for (int i = 2; i<=n; i+=2) sum += i;
10        System.out.println("Result : "+ sum);
11    }
12 }
13
```

```
Enter N :
50
Result : 650
```

9. Write a Java program to check whether a given year is a leap year or not.

```
week4_6.java week4_7.java week4_8.java week4_9.java
1 public class week4_9 {
2     public static void main(String[] args) {
3         int y=2024;
4         if(y%400 == 0)
5             System.out.println("Leap year");
6         else if (y%4 == 0 && y%100 != 0)
7             System.out.println("Leap year");
8         else
9             System.out.println("Not Leap Year");
10    }
11 }
12
```

```
Leap year

Process finished with exit code 0
```

# WEEK 4

**10.** Write a Java program that takes a number as input and prints all its factors.

```
week4_6.java week4_7.java week4_8.java week4_9.java week4_10.java
1 import java.util.Scanner;
2
3 public class week4_10 {
4     public static void main(String[] args) {
5         Scanner sc = new Scanner(System.in);
6         System.out.println("Enter N :");
7         int n = sc.nextInt();
8         System.out.println("Factors :");
9         for(int i=1; i<=n; i++) if(n%i == 0) System.out.println(i);
10    }
11 }
12 }
```

```
Enter N :
20
Factors :
1
2
4
5
10
20
```