

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.

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```
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 + + N.

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```
week4_1.java  week4_2.java  week4_3.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
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
```

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

```
week4_6.java x
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 x
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

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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 x
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
```

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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