# 14/09/2023

## ▼ Java Outputs

- To display variables in Java basic output function will be used with the variable name.
- In Java programming, concatenation is possible that will print the variable with a statis text

```
public static void main(String[] args){
  Double number = 10.6;
  System.out.println("I am" + "awesome.");
  System.out.println("Number = " + number);
}
```

**Task 01**

### Declare two integer or double variables and assign any relevant value and display the summation using a Java program.

```
public static void main(String[] args){
  Integer num1 = 10;
  Integer num2 = 8;
  System.out.println(num1 + num2);
}
```

## ▼ Java Inputs

- In Java programming to get an user input a `Class Library` file needed to be import to the ongoing project.

> 💡 If the project contains multiple task files this library file should import separately for each class if you’re taking user inputs.

- In Java library files can be imported using `import` keyword.

```
import java.util.Scanner;
```

- After importing the library file, a `class object` needed to be created and through the class object, a input can be taken to the application.
- Using the `Scanner` class library file we need to create a class object and `System.in` parameter needed to be pass when creating the object.

**Example**

```
Scanner input = new Scanner(System.in);
```

- When creating a class object, any object name can be used, but the parameter cannot be changed.
- Using the created object you can take user input values to the application.

### Example

```
import java.util.Scanner;

public class scan {
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);

        // Getting double input
        System.out.println("Enter double: ");
        double myDouble = input.nextDouble();
        System.out.println("Double entered = " + myDouble);

        // Getting String input
        System.out.println("Enter text: ");
        String myString = input.next();
        System.out.println("Text entered = " + myString);
    }
}
```

**Task 02**

## Write a Java program to get two integer user inputs and find out the maximum value out of two and display the answer.

```
import java.util.Scanner;

public class scan {
    public static void main(String[] args) {

        Scanner input = new Scanner(System.in);

        System.out.println("Enter a number: ");
        Double num1 = input.nextDouble();

        System.out.println("Enter another number: ");
        Double num2 = input.nextDouble();

        if (num1 > num2) {
            System.out.println("The larger number is " + num1);
        } else if (num1 < num2) {
            System.out.println("The larger number is " + num2);
        } else {
            System.out.println("The numbers are equal.");
        }
    }
}
```

**Task 03**

## Write a Java program to get an integer value from the user and display all numerical values from that number to 0. User input value should be non ‘0’ and that needed to be check from the program

```
import java.util.Scanner;

public class scan {
    public static void main(String[] args) {

        Scanner input = new Scanner(System.in);

        System.out.println("Enter a number: ");
        int num = input.nextInt();

        if (num <= 0) {
            System.out.println("Please enter a postive number");
        }

        for (int i=num; i>0; i--) {
            System.out.println(i);
        }
        num--;
    }
}
```

### Task 04

## Write a Java program to get two integer inputs from the user and check whether number 1 is divisible by number 2.

```
import java.util.Scanner;

public class divisible {
    public static void main(String[] args) {

        Scanner input = new Scanner(System.in);

        System.out.println("Enter a number: ");
        int num1 = input.nextInt();

        System.out.println("Enter another number: ");
        int num2 = input.nextInt();

        if (num1 % num2 == 0) {
            System.out.println("Number 1 is divisible by number 2");
        } else {
            System.out.println("Number 1 is not divisible by number 2");
        }

    }
}
```

**Task 05**

## Write a Java program to get user’s first name and last name separately and display user’s full name as one output.

```
import java.util.Scanner;

public class name {
    public static void main(String[] args) {

        Scanner scan = new Scanner(System.in);

        System.out.println("Enter the first name: ");
        String fName = scan.nextLine();

        System.out.println("Enter the last name: ");
        String lName = scan.nextLine();

        System.out.println(fName + " " + lName);
    }
}
```

**Task 06**

## Write a Java program to get a string input from the user and display how many characters are there in the user inserted word.

```
import java.util.Scanner;

public class character {
    public static void main(String[] args) {

        Scanner scan = new Scanner(System.in);

        System.out.println("Enter the first name: ");
        String word = scan.nextLine();

        System.out.println(word.length());
    }
}
```

**Task 07**

## Write a Java program to get a string input from the user and display how many characters are there in the user inserted word.

```
import java.util.Scanner;

public class character {
    public static void main(String[] args) {

        Scanner scan = new Scanner(System.in);

        System.out.println("Enter the first name: ");
        String word = scan.nextLine();

        System.out.println(word.length());
    }
}
```