

## *DAY 1 Assignment*

### *1. Difference between Compiler and Interpreter.*

#### *COMPLIER*

- *It takes entire program as input at time.*
- *Compiler translates the whole program into machine code at once.*
- *Complier takes lots of time to analyze the source code.*
- *Compiler always generates an intermediate object code.*
- *The time taken to execute the code is faster.*
- *Compiler generates error message after scanning entire code.*
- *Complied language is difficult to debug.*
- *Compiled program does not need to compile every time.*
- *Examples: C, C++.*

#### *INTERPRETER*

- *It takes one statement as input at a time.*
- *Interpreter translates only one statement.*
- *Interpreter takes less time to analyze the source code.*
- *No object code is generated.*
- *The time taken to execute the code is slower.*
- *Error is reported as soon as the first error is encountered.*
- *Debugging is easy as it will report as soon it encounter the error.*
- *Interpreted program are interpreted line by line every time they run.*
- *Example: Java, Python, Ruby.*

2. Write program to which will store the details of student and print the details using the below classes

- *Int roll*
- *String name*
- *Float marks*

```
public class Student {  
    public static void main(String arg[]){  
        int roll = 45;  
        String Name = "Tejas";  
        float marks = 80;  
        System.out.println("Roll Number:" +roll);  
        System.out.println("Student name:" + Name);  
        System.out.println("Student marks:" + marks);  
    }  
}
```

The screenshot shows a web browser window with the URL `jdoodle.com/online-java-compiler/`. The browser tabs include "Tejas1129/Day-1-Assignment: D...", "13926.html", and "Online Java Compiler - Online Ja...". The page content displays a Java program in a text editor, which has been compiled and executed. The code defines a `Student` class with a `main` method that initializes `roll` to 45, `Name` to "Tejas", and `marks` to 80, then prints these details. Below the code editor, the "Execute Mode, Version, Inputs & Arguments" section shows "JDK 11.0.4" and the "Interactive" checkbox is checked. An "Execute" button has been clicked. The "Result" section shows the output: "Roll Number:45", "Student name:Tejas", and "Student marks:80.0". A "Note:" section at the bottom states: "This website uses cookies to ensure you get the best experience on our website." with a "Got it!" button. The Windows taskbar at the bottom shows the system clock as 14:04 on 14-08-2021, with weather information for 27°C and light rain.

```
1 public class Student {  
2     public static void main(String arg[]){  
3         int roll = 45;  
4         String Name = "Tejas";  
5         float marks = 80;  
6         System.out.println("Roll Number:" +roll);  
7         System.out.println("Student name:" + Name);  
8         System.out.println("Student marks:" + marks);  
9     }  
10 }
```

Execute Mode, Version, Inputs & Arguments

JDK 11.0.4 Interactive CommandLine Arguments

Execute

Result  
compiled and executed in 0.964 sec(s)

```
Roll Number:45  
Student name:Tejas  
Student marks:80.0  
|
```

Note:  
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## DAY2 ASSINGMNET

*Write a java program which would take two values through command line argument and print the sum of the two values.*

```
public class Sum {  
    public static void main(String args[]) {  
        int a, b, c;  
        a=Integer.parseInt(args[0]);  
        b= Integer.parseInt(args[1]);  
        c=a+b;  
        System.out.println(" command line Input Sum is:" +c);  
    }  
}
```

The screenshot shows a web browser window with the URL `jdoodle.com/online-java-compiler/`. The page features a banner for "FREE SKILLS START HERE." and the title "Online Java Compiler IDE". Below the title, the Java code from the previous block is entered into the editor. The code is as follows:

```
1 public class Sum {  
2     public static void main(String args[]) {  
3         int a, b, c;  
4         a=Integer.parseInt(args[0]);  
5         b= Integer.parseInt(args[1]);  
6         c=a+b;  
7         System.out.println(" command line Input Sum is:" +c);  
8     }  
9 }
```

Below the code editor, the "Execute Mode, Version, Inputs & Arguments" section is visible. It shows "JDK 11.0.4" selected, the "Interactive" checkbox checked, and "CommandLine Arguments" set to "12 13". The "Execute" button is highlighted. Below this, the "Result" section shows the output: "command line Input Sum is:25". The Windows taskbar at the bottom indicates the time is 14:29 on 14-08-2021.