

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 page displays a Java program in a text editor, which has been compiled and executed. The program defines a `Student` class with a `main` method that initializes variables for roll number, name, and marks, and then prints them. The output of the program is shown in a black box with white text, displaying the roll number as 45, the name as Tejas, and the marks as 80.0. The browser's taskbar at the bottom shows the Windows logo, a search bar, and various application icons. A cookie notice is visible at the bottom of the browser window.

```
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

Result
compiled and executed in 0.964 sec(s)

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

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