**Day-05**

**21-02-2025**

**==============**

**Where we can write java programs?**

**=======================**

1) Using Notepad

2) Using IDE (Integrated Development Environment)

**Static program:**

**===========**

The program which can give the same output for any number of executions is called as "Static program".

Note:

=====

1) For any static program, not "import" statement is required.

2) While defining the class name using "class" keyword,

if the class name with more than one word:

each word need to start with uppercase letter

and remaining should be with lower case only.

javaprogramming ==> lower case

JAVAPROGRAMMING ==> upper case

Javaprogramming ==> Title case

JavaProgramming ==> Capitalize case

javaProgrammingLanguage ==> Camel case

3) Java has library

library is the collection of packages

package is the collection of classes

class is the collection of methods and data

**Static program using Notepad:**

**=====================**

1) Open the notepad file.

2) Write the java program.

3) Save that program into the created folder with the extension of ".java".

Ex: filename.java

4) After the creation of the java file,

we need to compile that file.

-> To do the compilation:

1) Open the command prompt

2) Navigate to file location

using: cd command

Syntax:

cd file\_path

3) To start the compile program, we can use "javac" command:

Syntax:

javac javaFilename.java

5) After the compilation, we need to forward that byte code to the interpreter for execution. For this, we can use "java" command.

Syntax:

java javaFile.java

java program/source program ================> Execution ==============> Output

**How the Java program execution works?**

**===========================**

source program (.java) ======> Compiler ====> Byte code/.class code

Byte code ====> Interpreter/JVM ====> Object code (1's and 0's)

Object code ====> Execution ==> output

Note:

=====

Java programming language is compiler and interpreter dependent language.

class MyFirstStaticProgram{

public static void main(String[] args){

System.out.println("Good Morning!");

System.out.println("Welcome To Ashok IT!");

}

}