**Day-05**

**21-02-2025**

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**Where we can write java programs?**

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1) Using Notepad

2) Using IDE (Integrated Development Environment)

**Static program:**

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

Note:

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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:**

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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:

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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!");

 }

}