



#### IMPORTANT TERMINOLOGIES

**Program:** set of instructions/Block of code in order to achieve a task

Syntax: set of rules - print("test")

**Compiler:** a s/w program that translates human-readable source code into machine executable code . Detect syntax error.

**Interpreter:** a s/w program that directly executes and interprets source code line by line without prior compilation. Detect run-time error

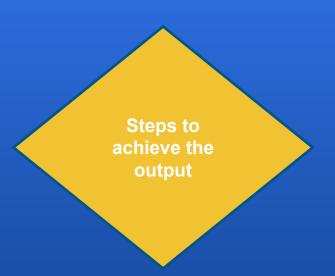
**Algorithm**: some steps

**Editor:** place to write the program



# Program Contains:

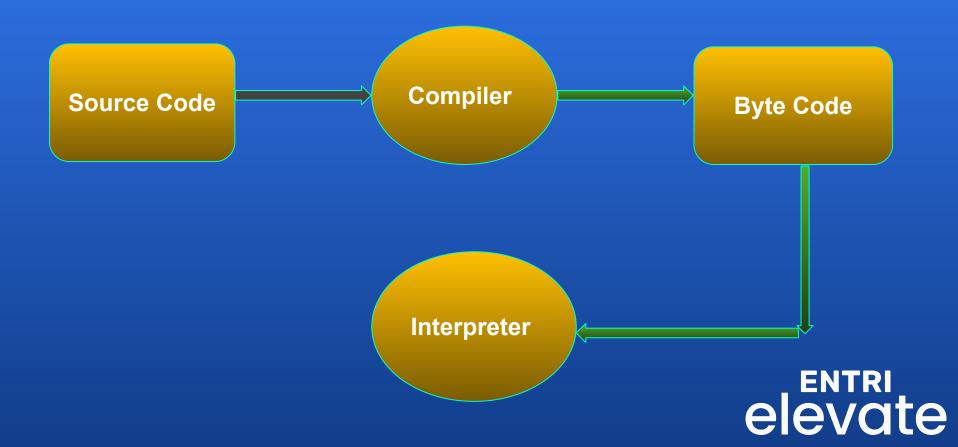
Input



Output



## JOURNEY OF CODE



#### MyProgram.java - Notepad

```
File Edit Format View Help

public class MyProgram {
    public static void main(String[] args) {
        System.out.println("Hello, World");
    }
}
```

Source code is first written in plain text files ending with the .java extension.



After the compilation is successful, java compiler will generate an intermediate ".class" file that contains the bytecode.



## Runtime error/Exceptions

Enter number 1:

Enter number 2:

DIVIDE

Number 1: 10

Number 2:0

Divide=Number 1/ Number 2



## ALGORITHM: How to swap two numbers





#### **EDITORS**

Editor for java: Eclipse, netbeans, intellij

**Editor for python**: IDLE, Jupyter, Pycharm(\*), Spyder, Google colab, online editors, coding room,

**Editor for C++:** Codeblocks, sublime text, turbo c++ Dev C, Visual studio



### SOFTWARE DEVELOPMENT LIFECYCLE(SDLC)

- is a process used by the software industry to design, develop and test high quality softwares.
- structured process that enables the production of high-quality, low-cost software, in the shortest possible production time.

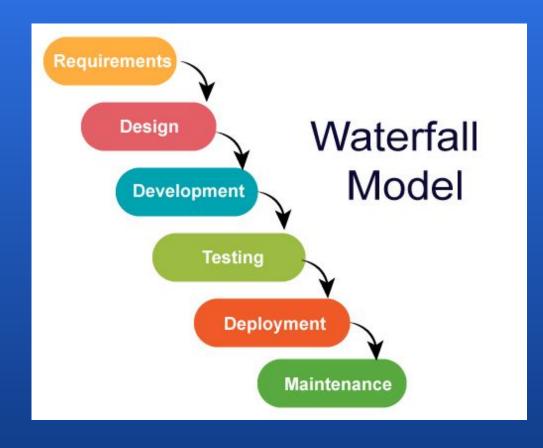


# Steps in SDLC

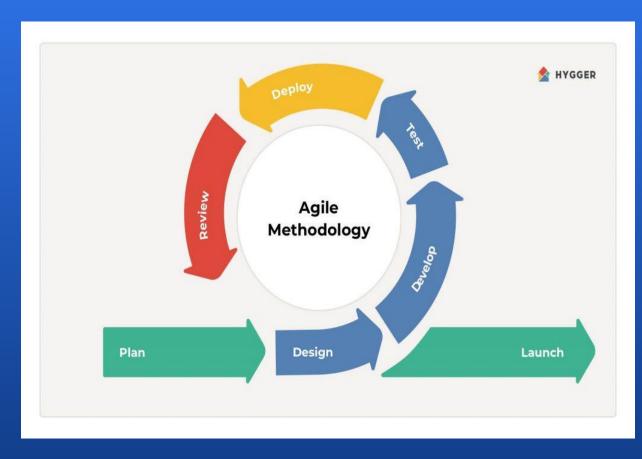
- Planning
- Analysis
- Design
- Coding
- Testing
- Deployment
- Maintenance



## WATERFALL MODEL



# AGILE MODEL



# THANK YOU

Welcome to IT Industry.

