JAVA PROGRAMMING

PROFESSOR KO

SYSTEM ENVIRONMENT OF PROGRAMMING ARCHITECTURE

Introduction and installation of Unix system, Ubuntu, WSL, Eclipse IDE, Github, Visual Studio Code, and software architecture from BIOS, OS, networking communication, applications, to information system.

Chorme extension with Speak it, AI grammar check Microsoft edge with Copilot.

JAVA PROGRAMMING

https://www.programiz.com/java-programming/examples

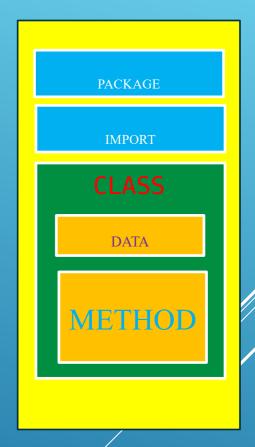
W3Schools Java Tutorial https://www.w3schools.com/java/default.asp

Oracle's Java Tutorials https://docs.oracle.com/javase/tutorial/

JAVA PROGRAMMING COMPONENTS (CLASS, VARIABLE, FUNCTION, CONSTRUCT)

Class declaration

- Public class ClassName {}
 - ▶ The first character must be capital
 - ▶ Its name must be its file name
 - ► It contains DATA and METHOD
 - ▶ It can be used as the blueprint of instance
- ► PACKAGE is the directory of software suite
- ► IMPORT brings the software suite



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

HELLO WORLD

► Class variable is initiated when its instance is born; therefore, each instance has its variable generated. For example: A Person class can have many instances thus each one has different personal ID.

CLASS VARIABLE

- ▶ formula
- ▶ Public ClassName (參數){}
 - ▶ It contains the blueprint to generate instance.
 - ▶ It is different from method due to no reply.

CONSTRUCT

DECLARATION OF INSTANCE VARIABLE