

JAVA PROGRAMMING

PROFESSOR KO

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W3Schools Java Tutorial

<https://www.w3schools.com/java/default.asp>

Oracle's Java Tutorials

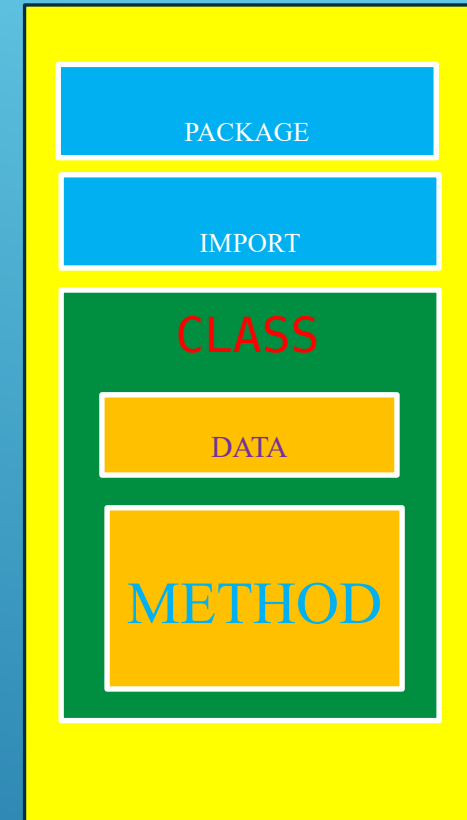
<https://docs.oracle.com/javase/tutorial/>

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# 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

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- ▶ 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

- ▶ `ClassName a = New ClassName();`
  - ▶ 'a' : variable name
  - ▶ 'new' : system word
  - ▶ 'ClassName()' : construct

## DECLARATION OF INSTANCE VARIABLE