first Java Program

OS

expecting main()

```
public class MyFirstProgram {

    public static void main(String[] args) {
    }

}
```
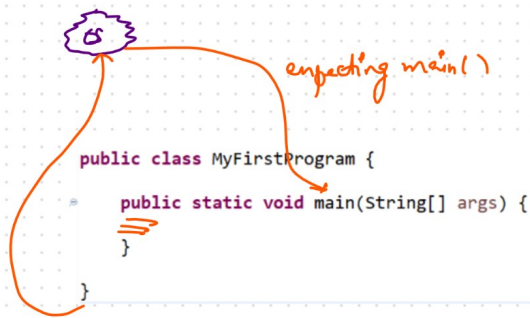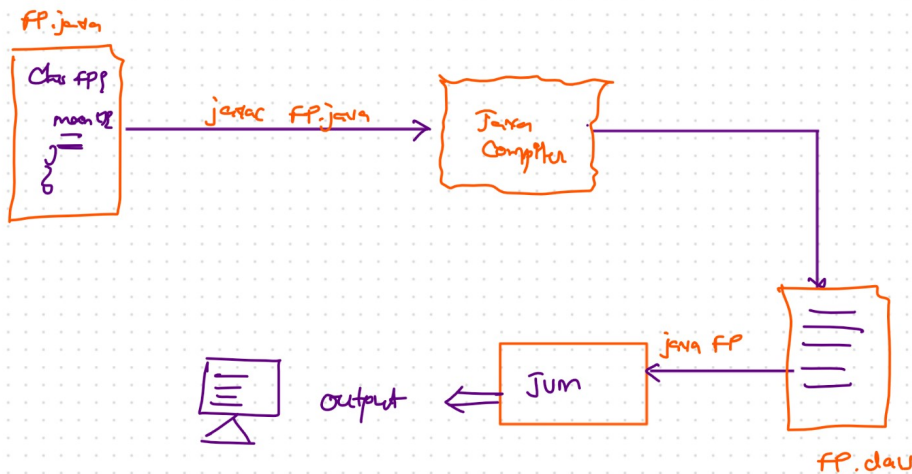
```
$ javac MyFirstProgram.java    ← compile source code
$ java MyFirstProgram          ← execute code
```

Note:

* The most important s/w in a system is O.S, which controls The complete working system

* If any program has to be executed the operating system (O.S) should give the control to the program

* If the OS should give The control to the program, it has some expectation from the lang (java) i.e the lang should contain **main()** method

FP.java

```
Class FPS
   main ()
   {
    }
}
```

javac FP.java →

Java Compiler

java FP

FP.clau

Jum

output ⇐

every method should have following 4 aspects

(1) method name

(2) parameters [optional]

(3) body

(4) return type → void

returntype methodName (parameters) {

body

}

Alternative ways of writing main method:

```java
public static void main(String[] args) {
// static public void main(String args[]) {
// public static void main(String args[]) {
   public static void main(String... args) {
```

Remove

(1) public ⟶ Error

(2) static ⟶ Error

// main method not found make it
   as public & static

<u>Method:</u> Collection of statements (one or more) that perform an operation. In java
there is a special method called as "main()", where in java engine looks for
it when running a program.

Data types

Primitive   Non-primitive

Numeric   Char   Yes/No
                 (UTF)
                 Char   Boolean

Integer   Real Numbers

1 byte = 8 bits

(-128 to 127) — byte   4b — float
-32768 to 32767
  2b   — short

  4b   — int   8b — double

  8b   — long

  1.0   100.0

(2+2)
(5+2)

five ⎫ Humans
two   ⎭