

CREATING A JAVA PROGRAM

FIRST JAVA PROGRAM

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

FIRST JAVA PROGRAM

- Program is enclosed within a class

Class Name: HelloWorld

- The body of the program is enclosed in a method called

`public static void main (String args[])`

- First method that is run when executing any Java program.

FIRST JAVA PROGRAM

```
public static void main (String args[])
```

- public

Method can be accessible from anywhere inside or outside the class

- static

Method is the same for all instances of the class

- void

Return type -- main() does not return a value

FIRST JAVA PROGRAM

```
public static void main (String args[])
```

Function

Takes a single parameter -- String args[]

args

Array of String objects

Represent command-line arguments

Passed during execution of the Program

main() consists of a single statement

```
System.out.println("Hello, World!");
```

FIRST JAVA PROGRAM

```
System.out.println("Hello, World!");
```

println()

Method automatically appends a newline character (\n) at the end of the string

out

The out object is a member variable of the System

System

System represents the standard output stream.

Global object in the Java environment

Encapsulates system functionality

FIRST JAVA PROGRAM

Save

Name of the program = Name of the class that has main method

HelloWorld.java

Compile

```
javac HelloWorld.java
```

Generates Byte Code -- HelloWorld.class

It is a .class file

Run

```
java HelloWorld
```

Generates Executable Code -- HelloWorld.exe

Thank you