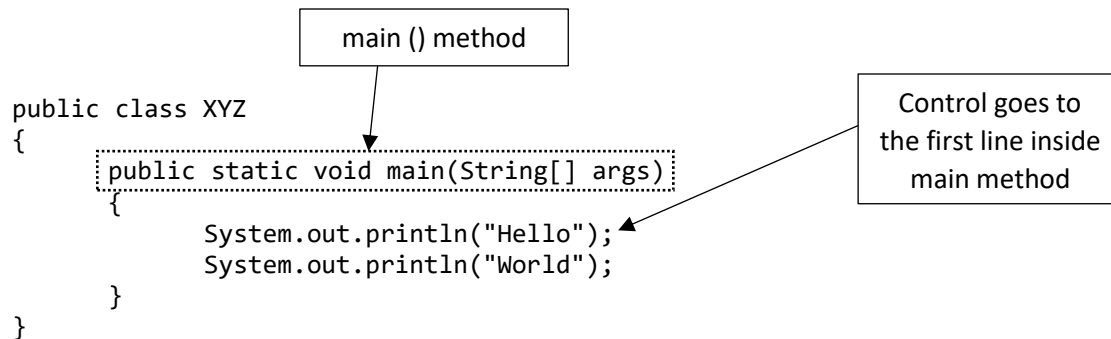## How main() method works?

1) **Main method is the entry point of our program. When we execute our code Java searches for the main() method defined in our code. The control is then transferred to the first line inside main method.**

main () method

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

Control goes to the first line inside main method

2) **Important Points about main() method:**
   o **The syntax of main method is fixed. Any changes will generate compile time errors.**
   o **If we do not mention main method then code will compile perfectly. However, while executing code we will get "No main method found" error.**

Task 1	Given a string as input. Change every "a" to "x", "b" to "yy" and all the other characters to "#" in given string.	
Test Cases	**Input**	**Expected Output**
	"ab34"	xyy##
	"Bad"	#x#
	"bAt$5"	yy####

Task 2	Given a string as input. Print patterns according to following set of test cases.	
Test Cases	**Input**	**Output**
	"hello"	o# ol## oll### olle#### olleh#####
	"trisect"	t# tc## tce### tces#### tcesi##### tcesir###### tcesirt#######