



SNS COLLEGE OF ENGINEERING



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Department of Information Technology

19CS204 OBJECT ORIENTED PROGRAMMING

I YEAR /II SEMESTER

Unit 1- INTRODUCTION TO OOP

Structure of Java Program





Simple Java Program



```
class HelloWorld
{
    // Your program begins with a call to main().
    // Prints "Hello, World" to the terminal window.
    public static void main(String args[])
    {
        System.out.println("Hello, World");
    }
}
```



Simple Java Program



Class definition:

This line uses the keyword **class** to declare that a new class is being defined.

```
class HelloWorld
```

HelloWorld is an identifier that is the name of the class.

The entire class definition, including all of its members, will be between the opening curly brace { and the closing curly brace } .

Main method:

In Java programming language, every application must contain a main method whose signature is:

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



Simple Java Program



Public

- Access Modifier – Who has access to main method
- Making the main() method public makes it globally available.
- JVM can invoke it from outside the class as it is not present in the current class.
- So that JVM can execute the method from anywhere.



Simple Java Program



static – Keyword

- Main method is to be called without object.
- When java runtime starts, there is no object of the class present.
- That's why the main method has to be static so that JVM can load the class into memory and call the main method.
- If the main method won't be static, JVM would not be able call it because there is no object of the class is present.



Simple Java Program



void – Keyword

- The main method doesn't return anything.
- Once the main method is finished executing, java program terminates.
- So there is no point in returning anything, there is nothing that can be done for the returned object by JVM.

main()

- Name configured in the JVM.



Simple Java Program



String[] args

- String array gets command line arguments
- Java main method accepts a single argument of type String array.
- This is also called as java command line arguments.

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

- This line outputs the string “Hello, World” followed by a new line on the screen.
- Output is actually accomplished by the built-in println() method.
- System is a predefined class that provides access to the system, and out is the variable of type output stream that is connected to the console.



THANK YOU