

SNS COLLEGE OF ENGINEERING

Kurumbapalayam(Po), Coimbatore – 641 107 Accredited by NAAC-UGC with 'A' Grade Approved by AICTE, Recognized by UGC & Affiliated to Anna University, Chennai

Department of Information Technology

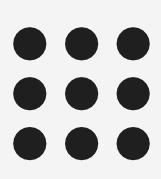
19CS204 OBJECT ORIENTED PROGRAMMING

I YEAR /II SEMESTER

Unit 1- INTRODUCTION TO OOP

Structure of Java Program



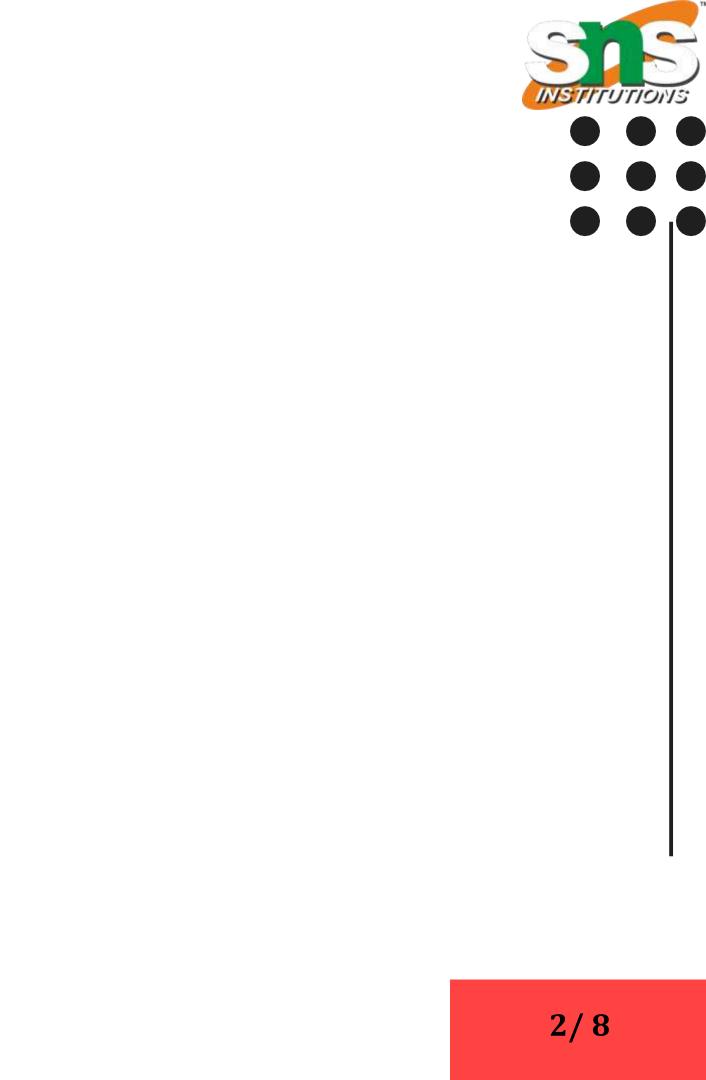




class HelloWorld

// 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");
```





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)





Public

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





static – Keyword

- Main method is to be called without object. \bullet
- When java runtime starts, there is no object of the class present. lacksquare
- That's why the main method has to be static so that JVM can load the class into \bullet 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 ulletobject of the class is present.





void – Keyword

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

main()

• Name configured in the JVM.





String[] args

- String array gets command line arguments
- Java main method accepts a single argument of type String array. ullet
- 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. ullet
- Output is actually accomplished by the built-in println() method. \bullet
- System is a predefined class that provides access to the system, and out is the variable lacksquareof type output stream that is connected to the console.





THANK YOU

