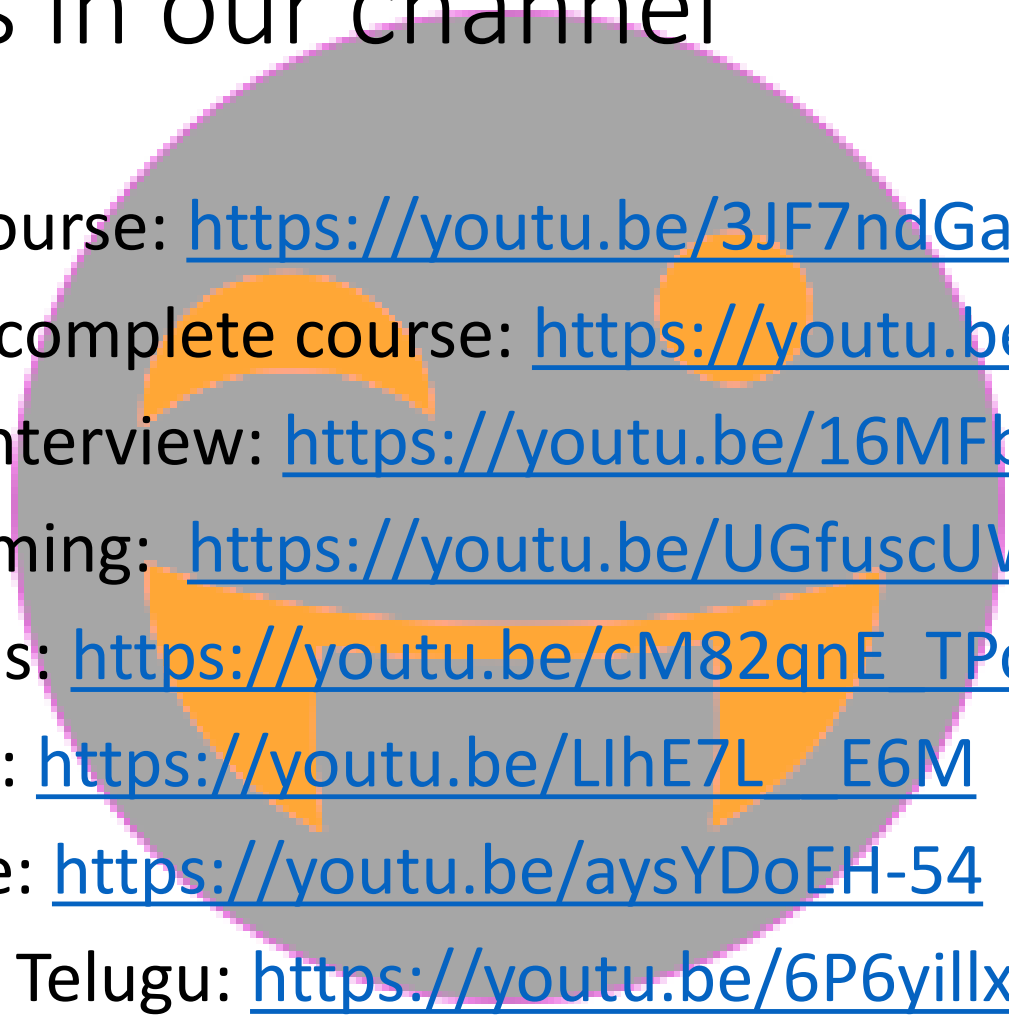
Chapter 9

Write your first Java Application

Other courses in our channel



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- 👉 Python 11 hours complete course: https://youtu.be/hXN0JBWIya8
- 👉 20 Programs for interview: https://youtu.be/16MFbFib7v8
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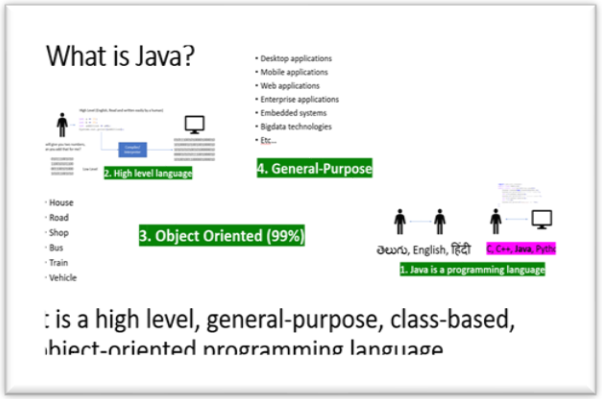
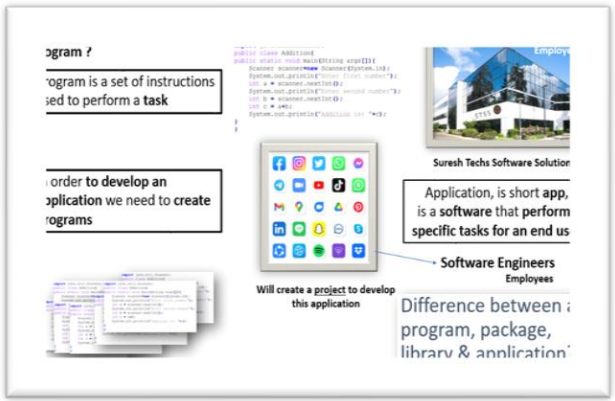
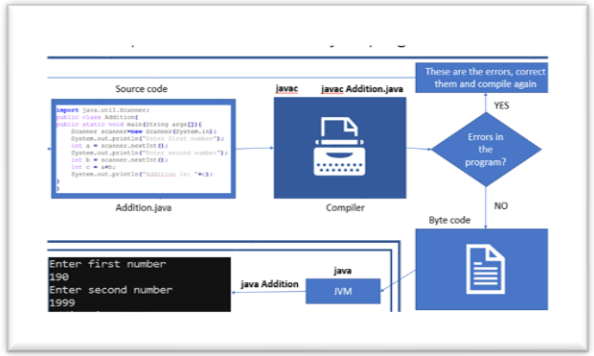
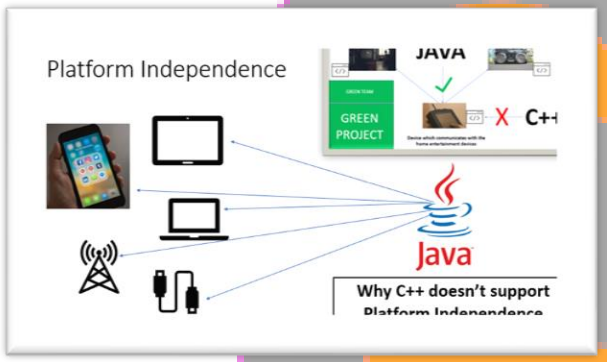




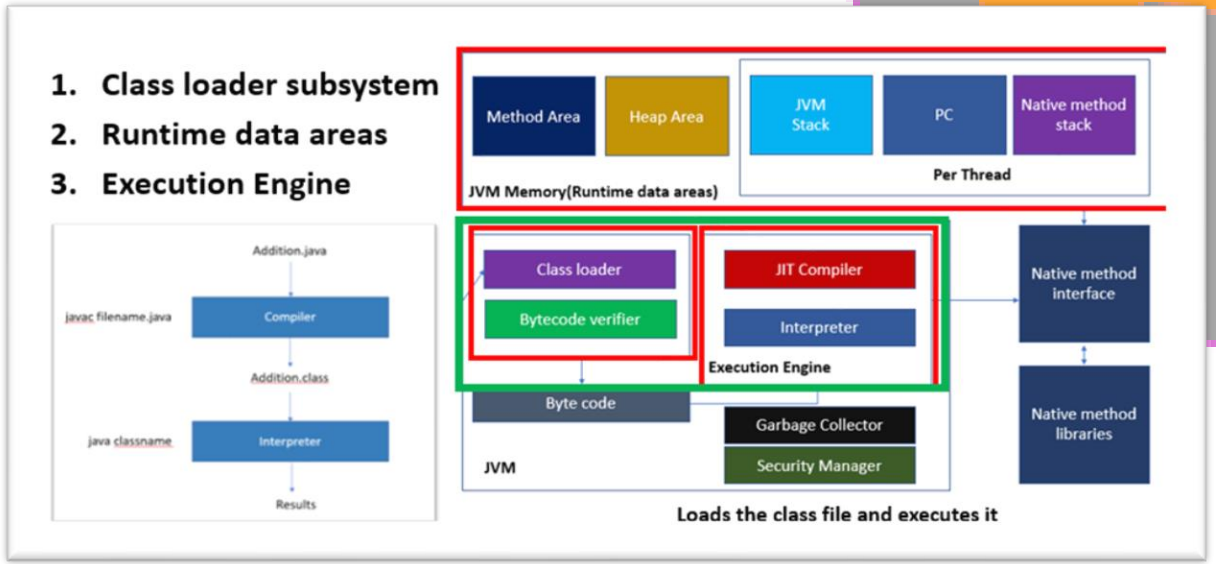




Write your first Java Application

jdk-18_windows-x64_bin

Let's Install Java (JDK)



Program ?

Program is a set of instructions used to perform a **task**

In order **to develop an application** we need to **create programs**

```java
import java.util.Scanner;
public class Addition{
public static void main(String args[]){
    Scanner scanner=new Scanner(System.in);
    System.out.println("Enter first number");
    int a = scanner.nextInt();
    System.out.println("Enter second number");
    int b = scanner.nextInt();
    int c = a+b;
    System.out.println("Addition is: "+c);
}
}
```

Will create a project to develop this application

Suresh Techs Software Solutions

Application, is short **app**, is a **software** that **performs specific tasks for an end user**

Software Engineers

Employees

Difference between a program, package, library & application?

Our goal - print below message to the console

Welcome to Suresh techs, I am learning Java.

My name is Hareesh, I will get job soon

1

2

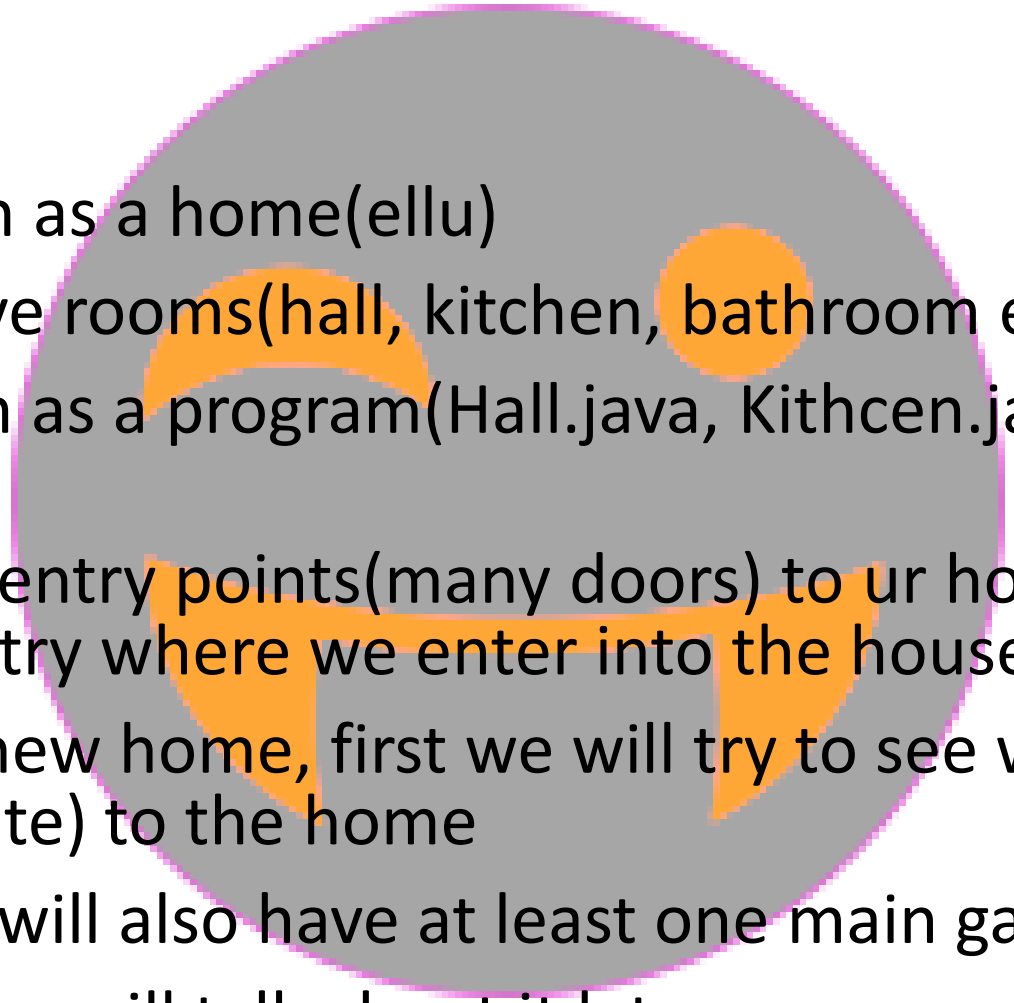
3

4

“Suresh techs” is 5 star

Terminal / Console / Command prompt

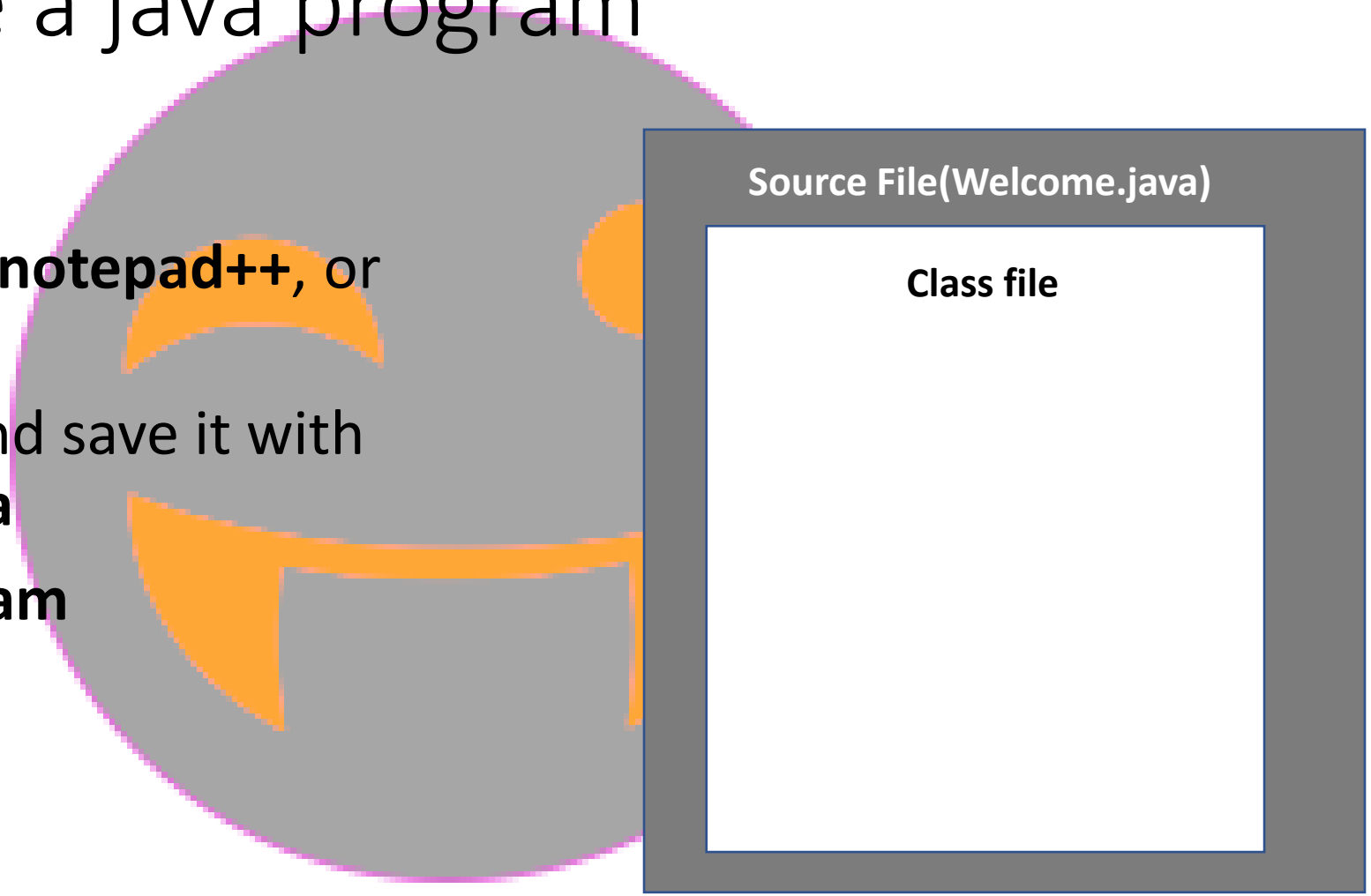
Every application will have an entry point(main gate) from where execution starts



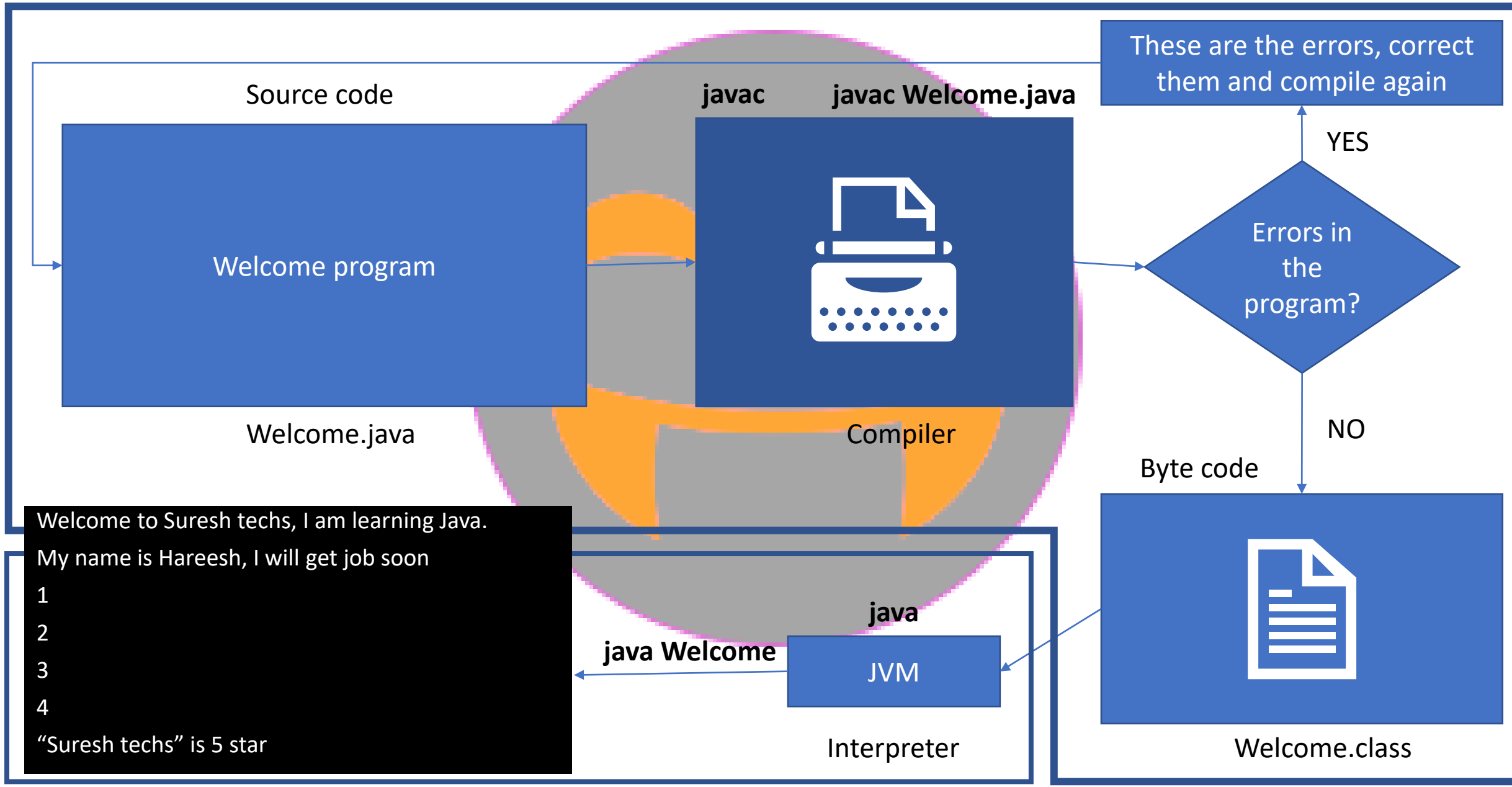
- Think an application as a home(ellu)
- Every home will have rooms(hall, kitchen, bathroom etc)
- Consider each room as a program(Hall.java, Kithcen.java, Bathroom.java)
- There will be many entry points(many doors) to ur home but there will be one main entry where we enter into the house.
- Ex: If we go to any new home, first we will try to see where is the entry point(main gate) to the home
- Even a small house will also have at least one main gate to enter
- Keep this in mind, we will talk about it later

Steps to write a java program

1. **Open** any of the **editors**(notepad, **notepad++**, or any other)
2. Create new file and save it with an extension **.java**
3. **Write your program**



Steps to write and execute java programs?

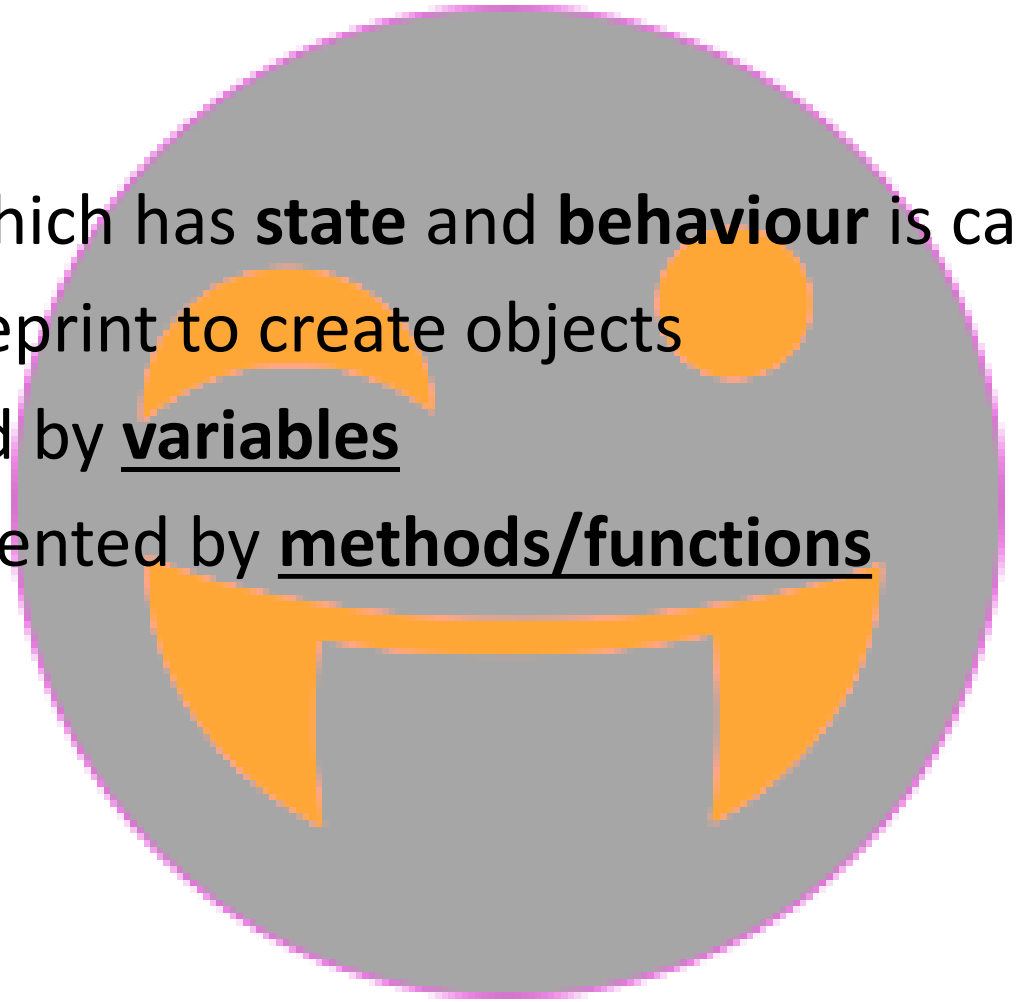


NOTE

- You may note understand everything in this chapter
- Slowly you will get everything
- Don’t worry 😊

Overview

- **Object**: Anything which has **state** and **behaviour** is called an object
- **Class**: Class is a blueprint to create objects
- **State** is represented by **variables**
- **Behaviour** is represented by **methods/functions**



Welcome.java

```
class Welcome {

}
```

method

Method calling

Method implementation

Rs. 10

Chips packet

```
class DailyActivities {
  String item;
        switchOnLight(        );

  item =  getChipsPacket(  10  );

  String  getChipsPacket(int rs ) {

        cashbox = rs;
        return “lays packet”

      }

  void  switchOnLight(        ) {


      }

}
```

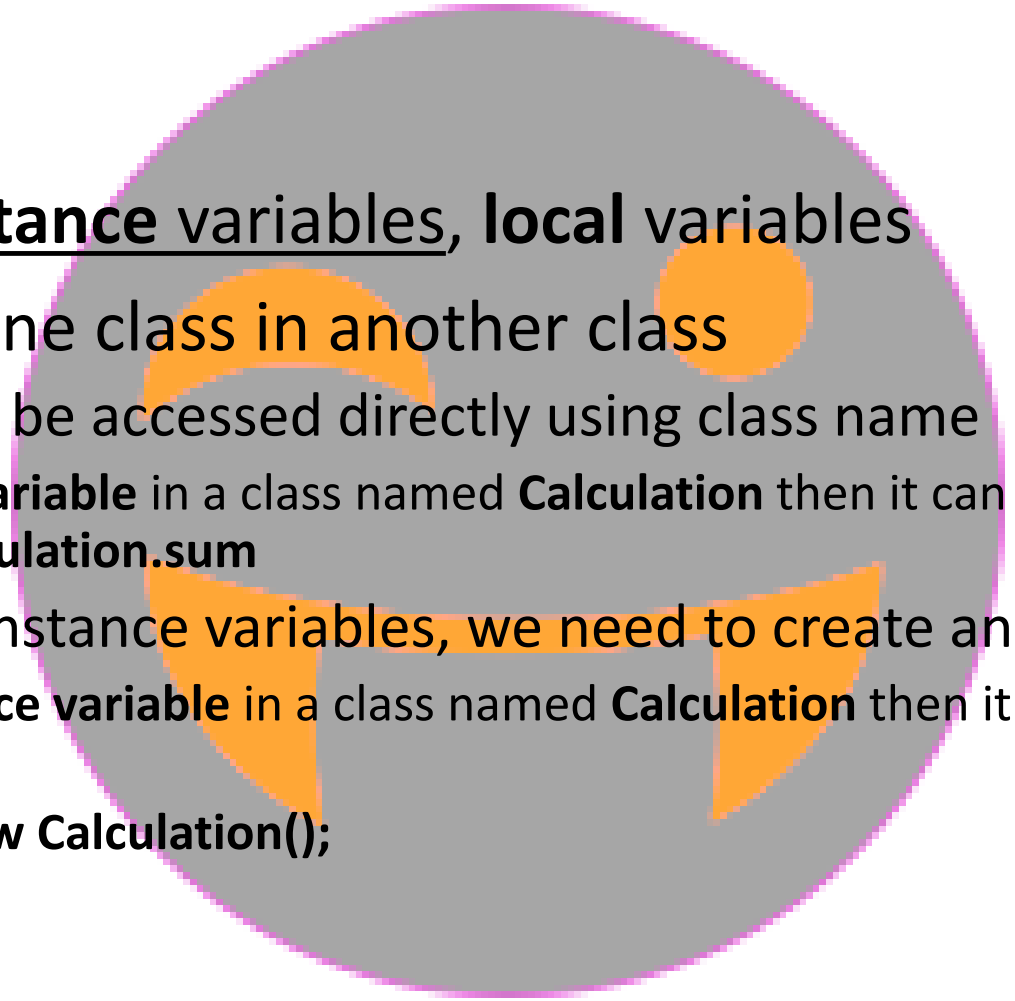
main method / main entry gate

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

}
```

```
D:\Java-SureshTechs>javac Welcome.java

D:\Java-SureshTechs>java Welcome
```

You can go to other rooms(kitchen, bathroom etc) from the main gate and once you are done with your tasks, you can come out from the main method

state



- **Static** variables, **instance** variables, **local** variables
- Accessing state of one class in another class
  - Static variables can be accessed directly using class name
    - If **sum is a static variable** in a class named **Calculation** then it can be accessed from other class as **Calculation.sum**
  - In order to access instance variables, we need to create an object
    - If **sum** is an **instance variable** in a class named **Calculation** then it can be accessed from other class as:
    - **Calculation c = new Calculation();**
    - **c.sum**

Look at our goal

Welcome to Suresh techs, I am learning Java.

My name is Hareesh, I will get job soon

1

2

3

4

“Suresh techs” is 5 star

Terminal / Console / Command prompt

Print message to the console

James Gosling has written a class called **System**

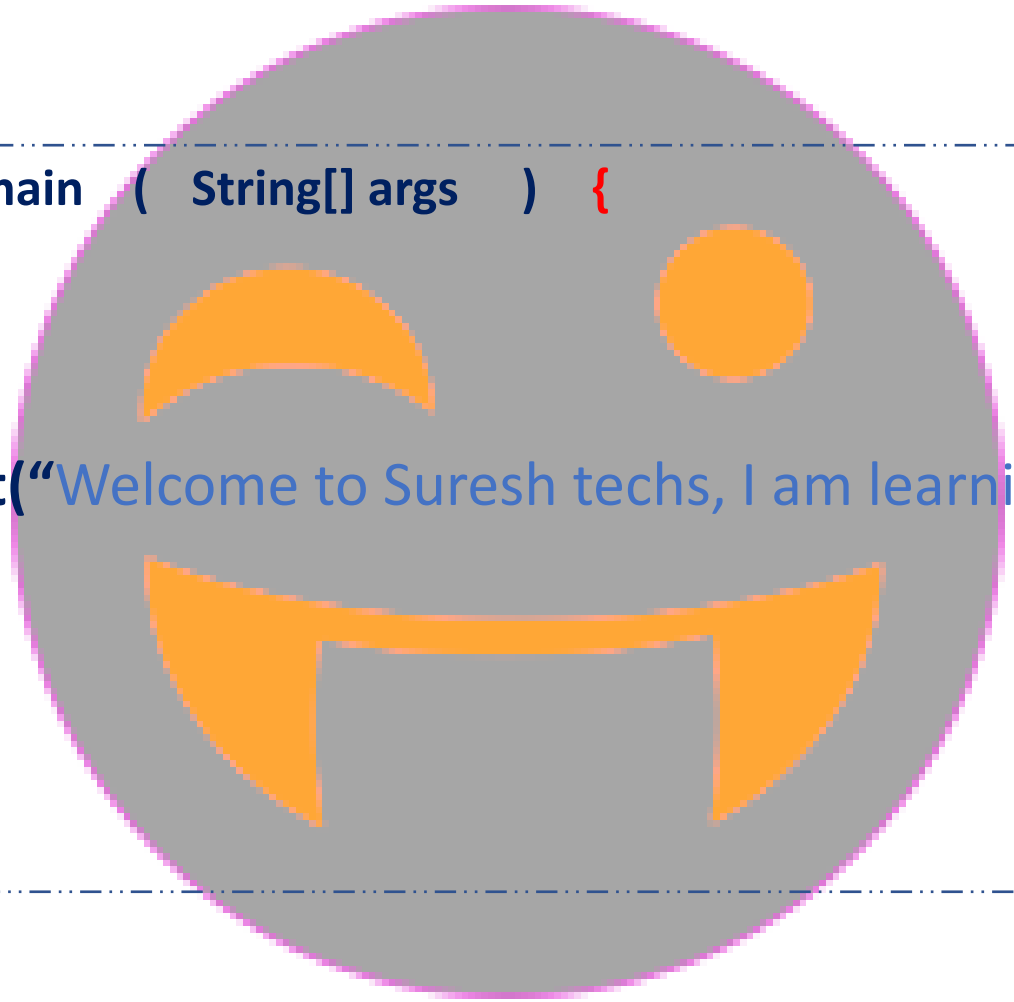
Windows (C:) › Program Files › Java › jdk-18.0.1 › lib › src › java.base › java › lang ›

out is a static variable of type **PrintStream**

Windows (C:) › Program Files › Java › jdk-18.0.1 › lib › src › java.base › java › io

Welcome.java

```
class Welcome {

    public static void main ( String[] args ) {

        System.out.print("Welcome to Suresh techs, I am learning Java.");

    }
}
```



Let us complete our first program

Welcome to Suresh techs, I am learning Java.

My name is Hareesh, I will get job soon

1

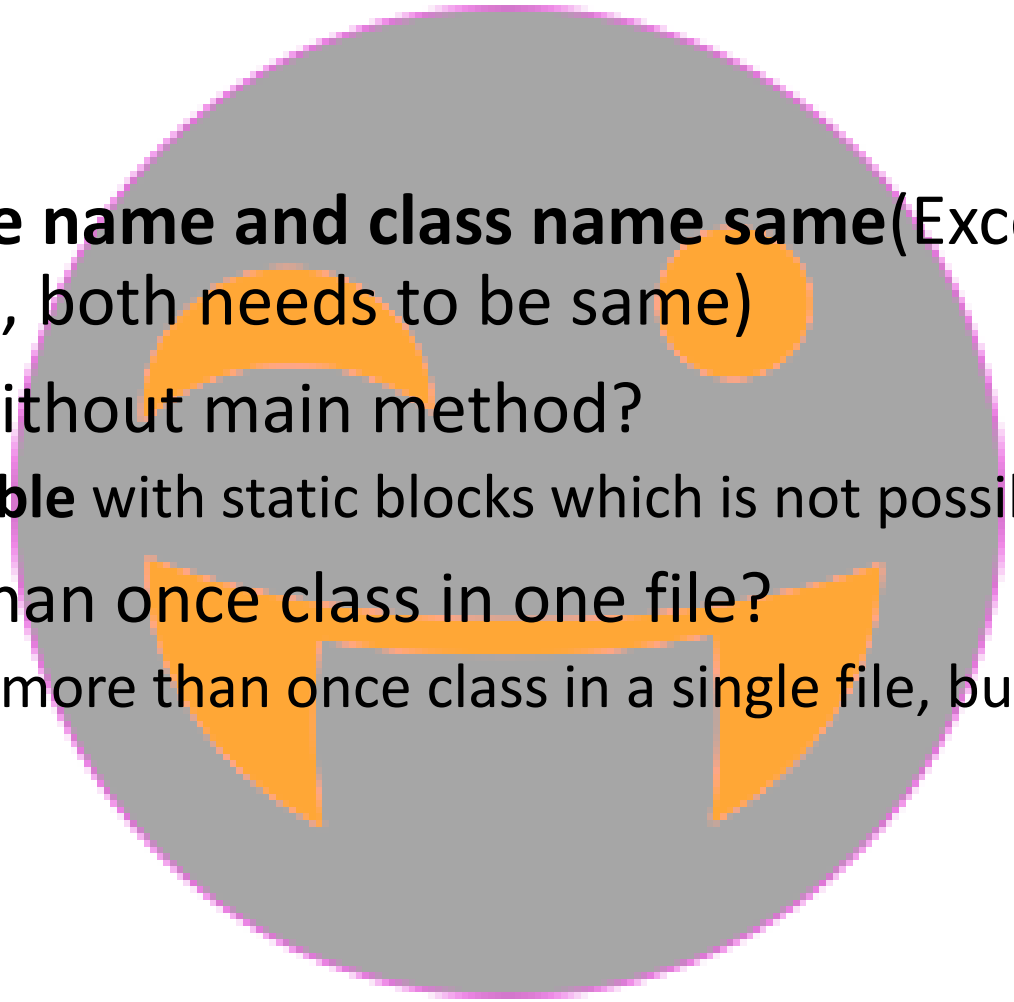
2

3

4

“Suresh techs” is 5 star

Rules



- No need to **have file name and class name same**(Except that if your class is made public, both needs to be same)
- Can I have a class without main method?
  - **Earlier it was possible** with static blocks which is not possible now
- Can I create more than once class in one file?
  - **Yes you can** create more than once class in a single file, but we don't often do that

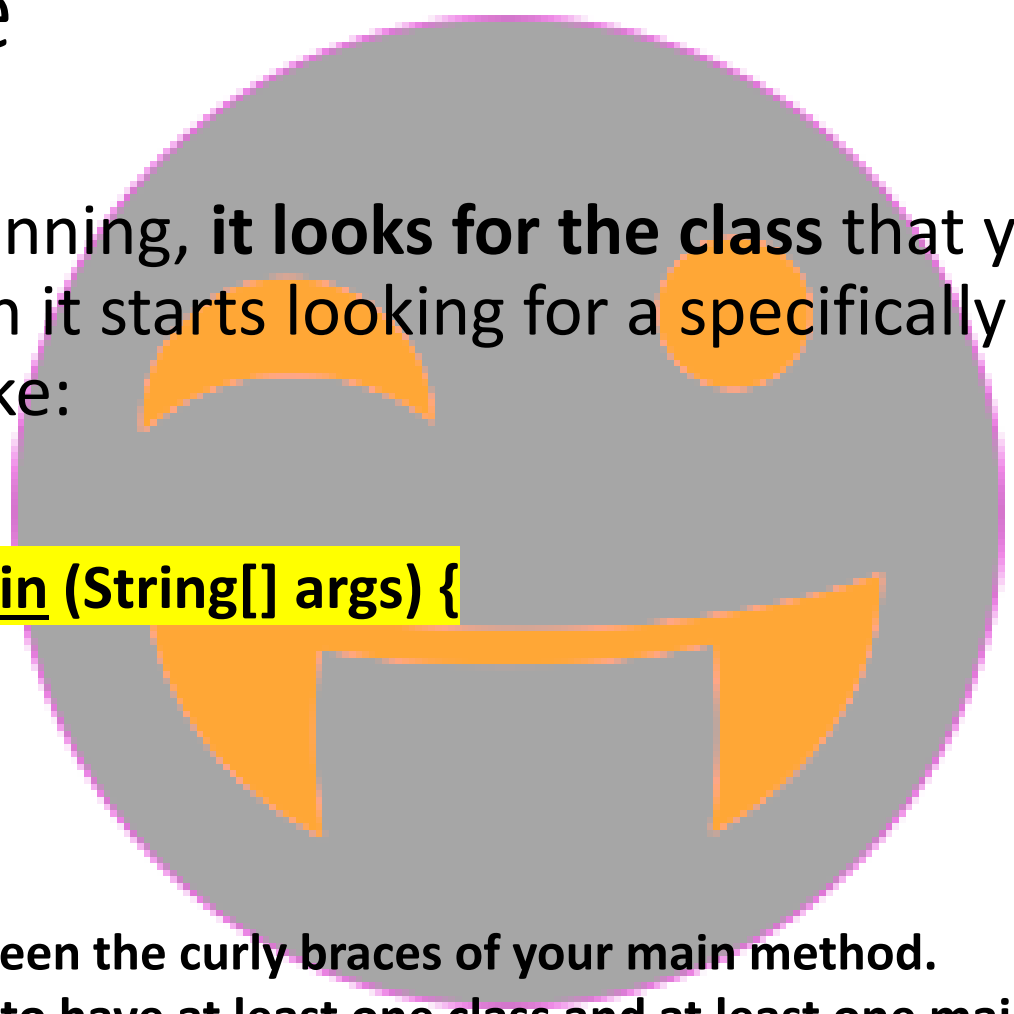
Task for you

```
*
**
***
****
*****
******
*******
********
*********
**********
```

java Welcome

- When JVM starts running, **it looks for the class** that you give it at the **command line**, then it starts looking for a specifically written method that looks exactly like:

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

}
```



- **JVM runs everything between the curly braces of your main method.**
- **Every java application has to have at least one class and at least one main method(not one main method per class, just one main method per application)**

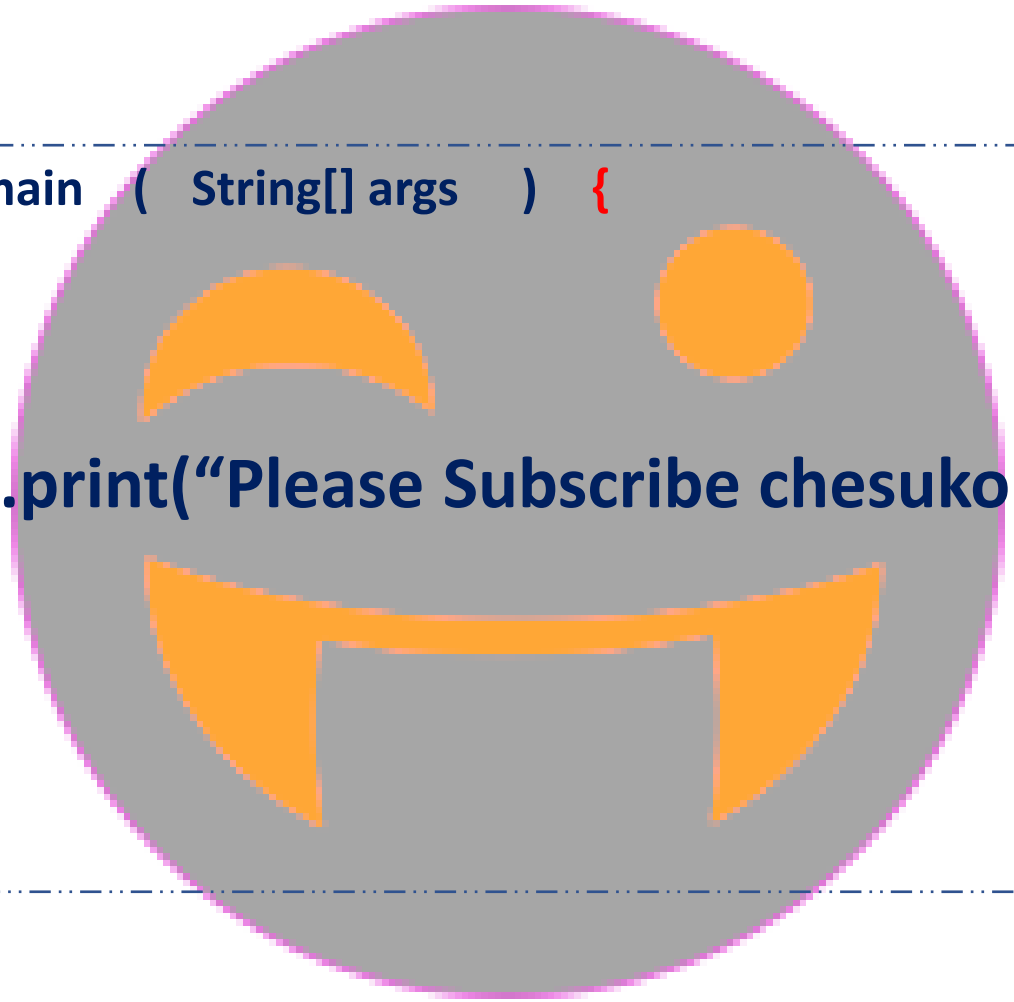
Welcome class

```
class Welcome {
    public static void main(String[] args){
        System.out.println("Welcome to suresh techs, I am learning Java");
        System.out.println("My name is Hareesh, I will get job soon");
        System.out.println(1);
        System.out.println(2);
        System.out.println(3);
        System.out.println(4);
        System.out.println("'Suresh techs' is 5 star");
    }
}
```

Review

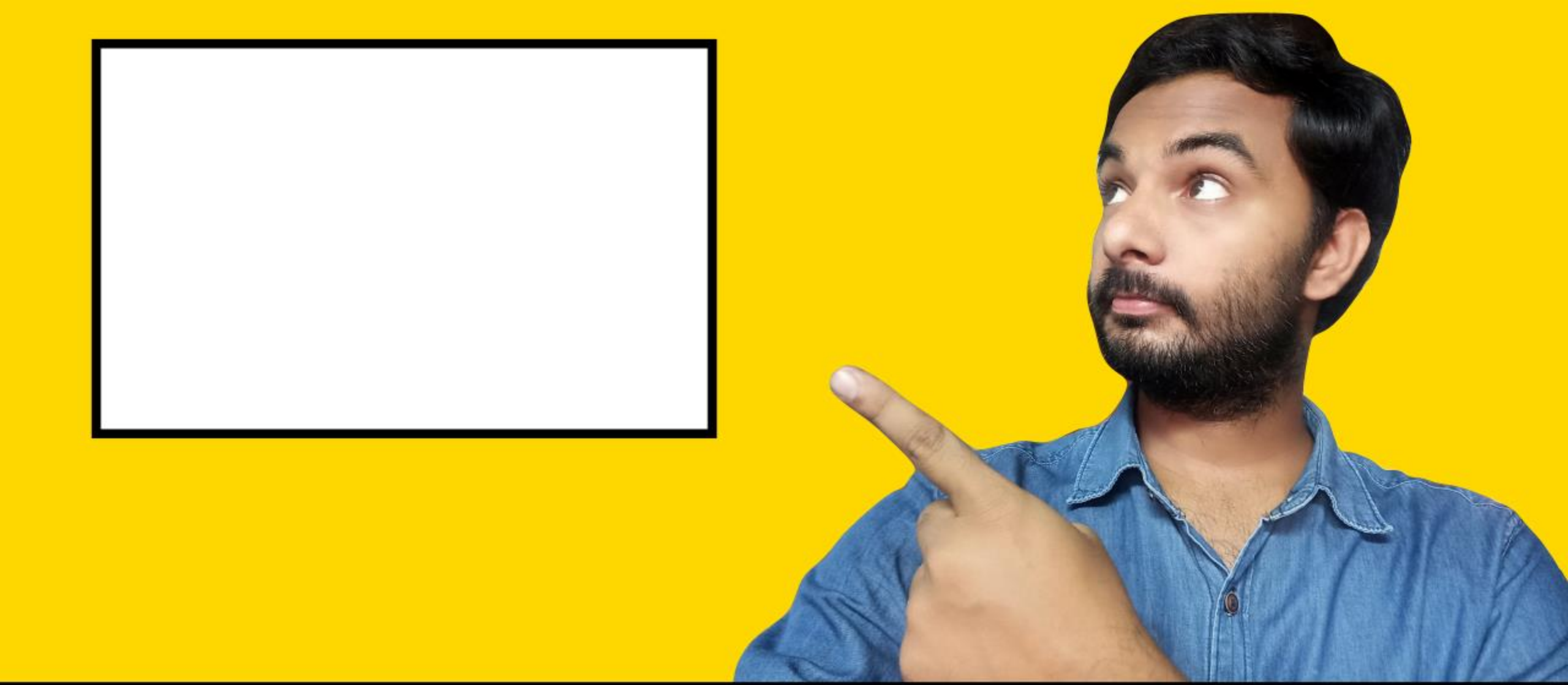
Welcome.java

```
class Welcome {

    public static void main ( String[] args ) {

        System.out.print("Please Subscribe chesukondi");

    }
}
```



What next?

Interview questions – part 2 (chapter 4 to 9)



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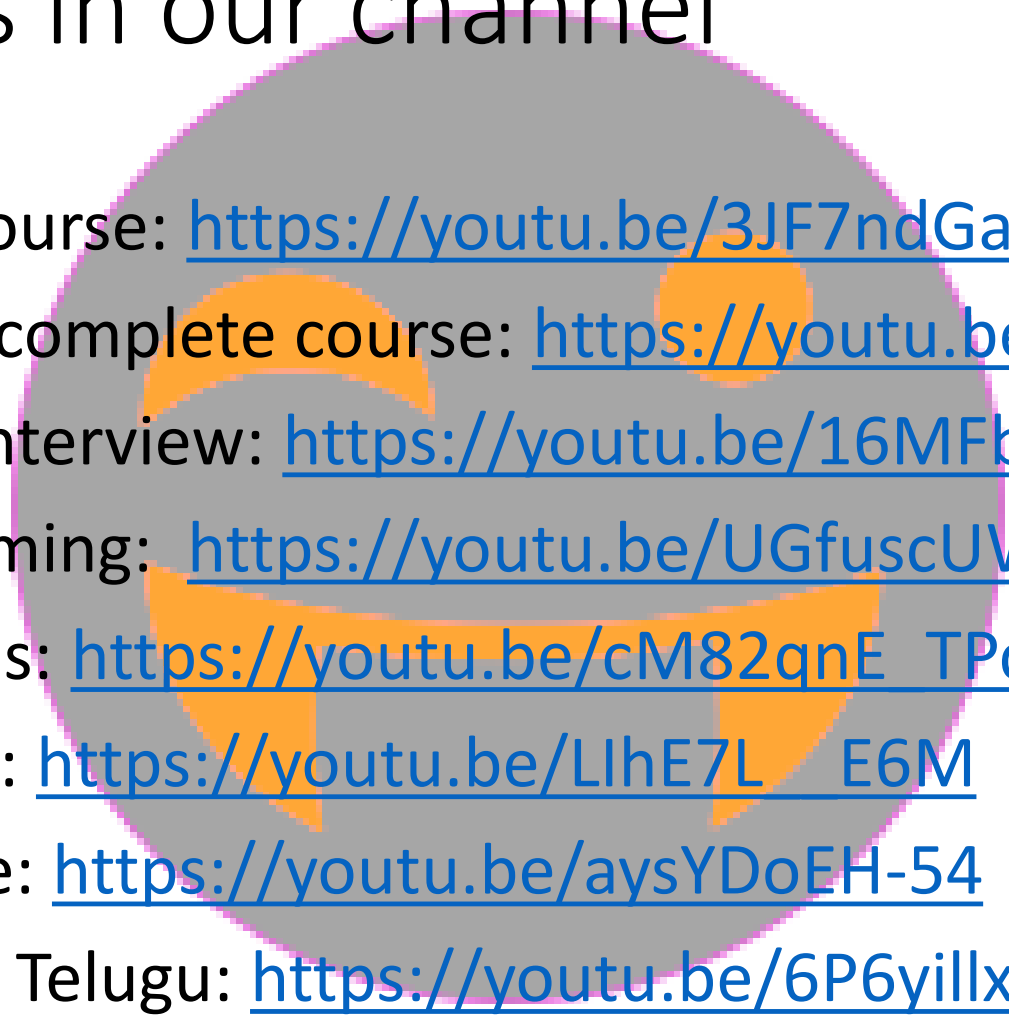

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