

Chapter 1

What is Java &
Why should I learn Java?



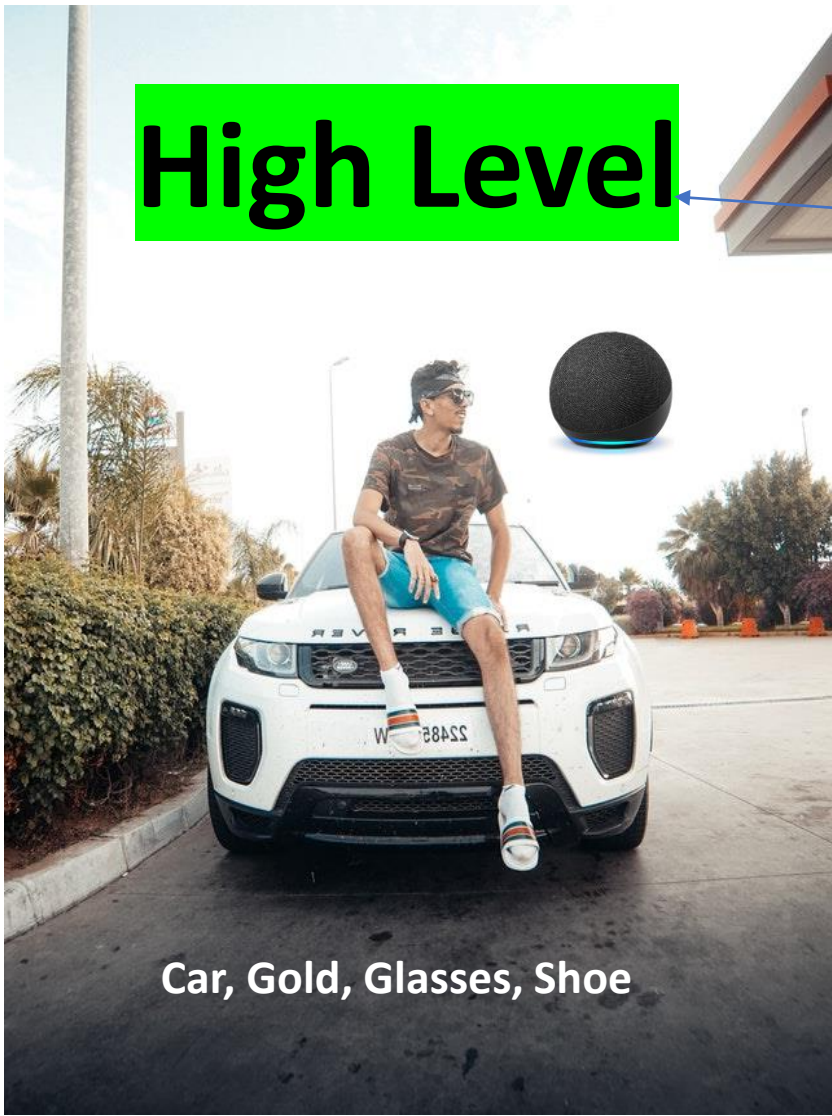
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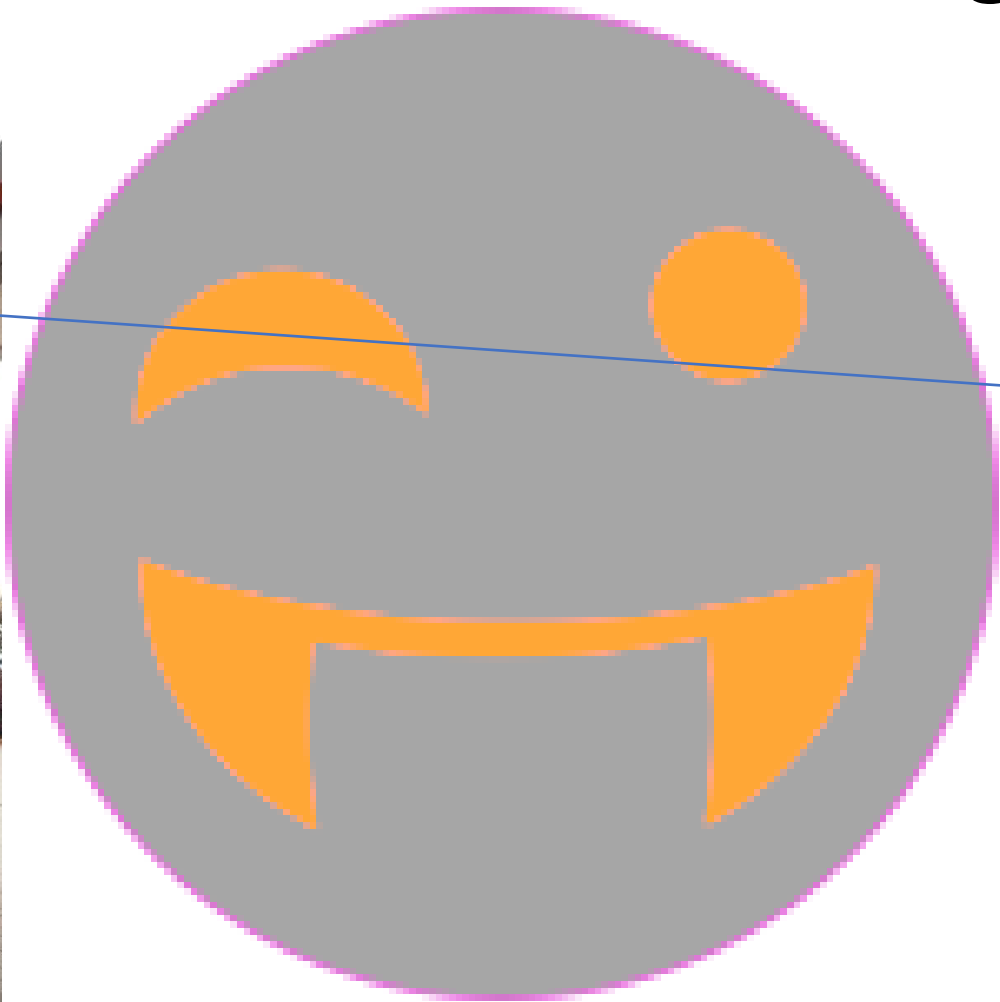
Without any
knowledge?

Normal human discussions in a marriage



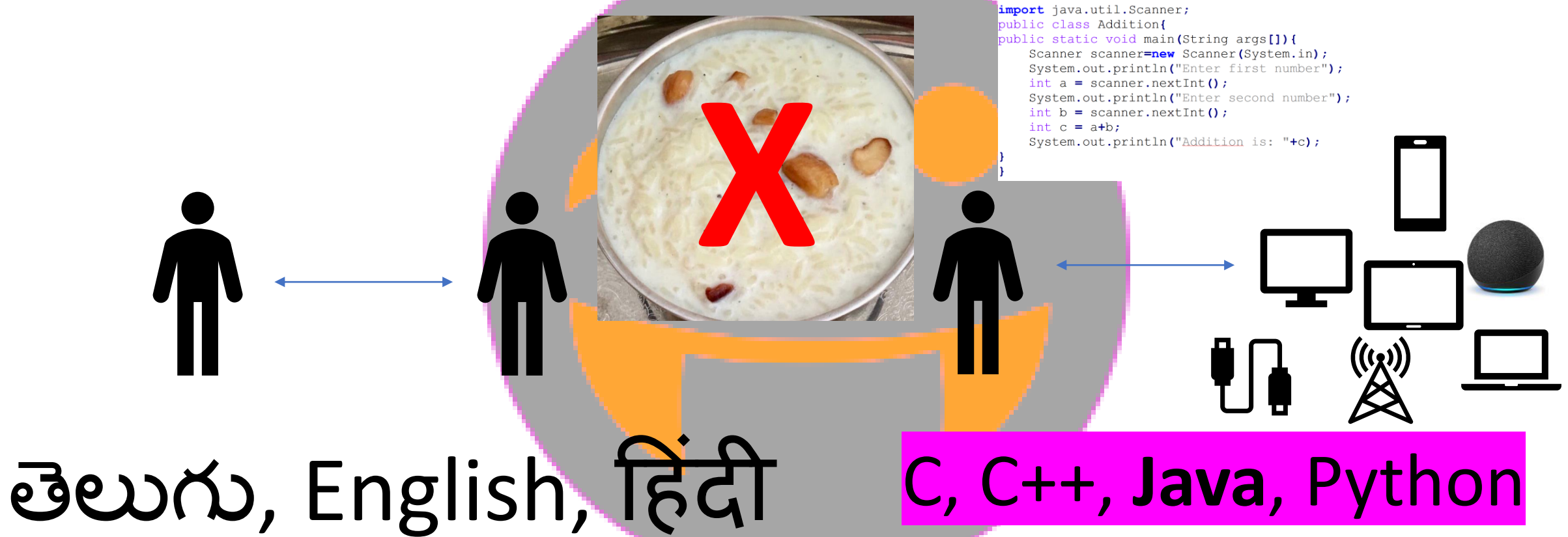
High Level

Car, Gold, Glasses, Shoe



Auto, Shirt, Sandal

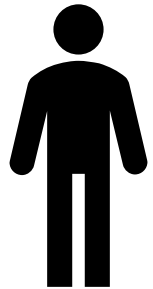
Human to Human communication?



1. Java is a programming language

```
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);  
    }  
}
```

How a computer understand?



High Level (English, Read and written easily by a human)

```
int a = 10;  
int b = 20;  
int addition = a+b;  
System.out.print(addition);
```

I will give you two numbers,
can you add that for me?

010111001010
110010101100
001100101000
101011001010

Low Level

Compiler/
Interpreter

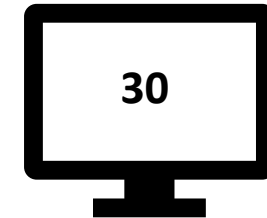
2. High level language



1 - On

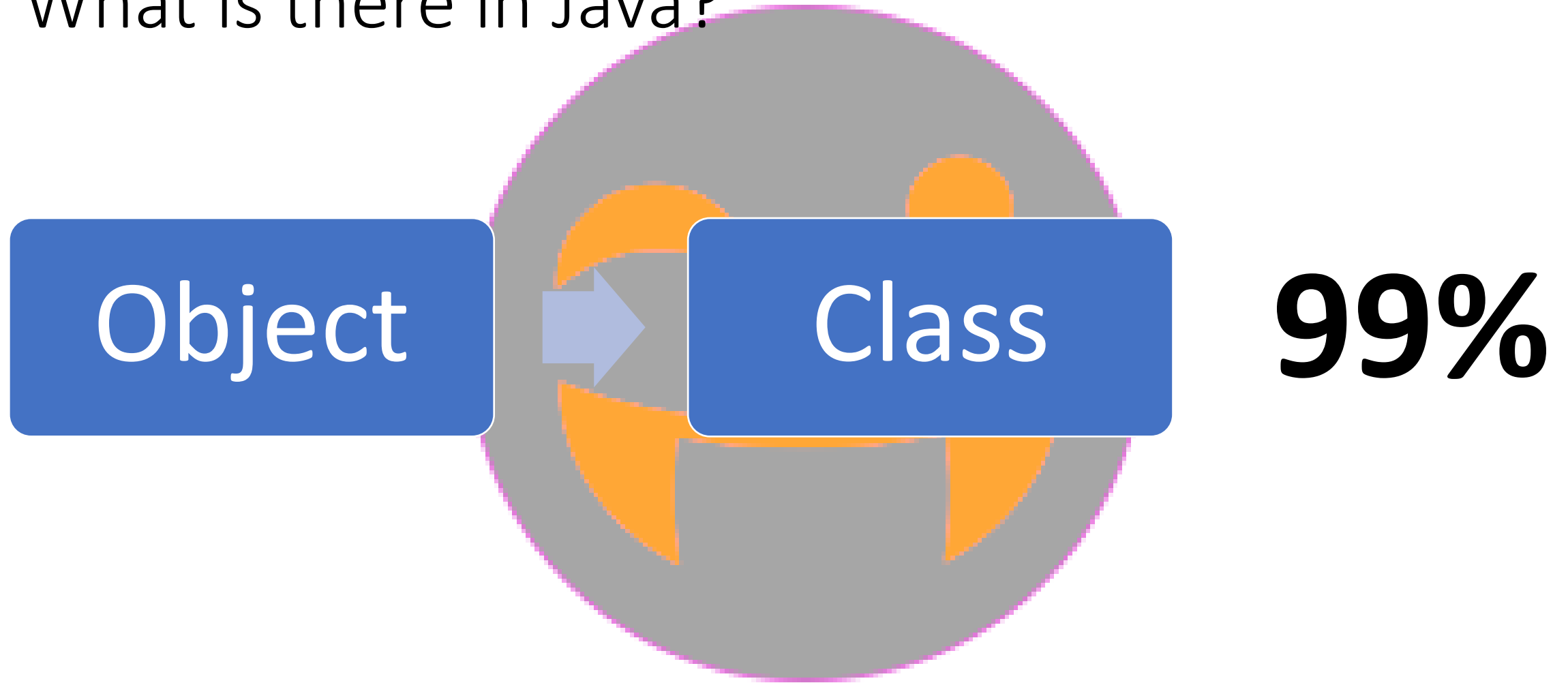


0 - Off



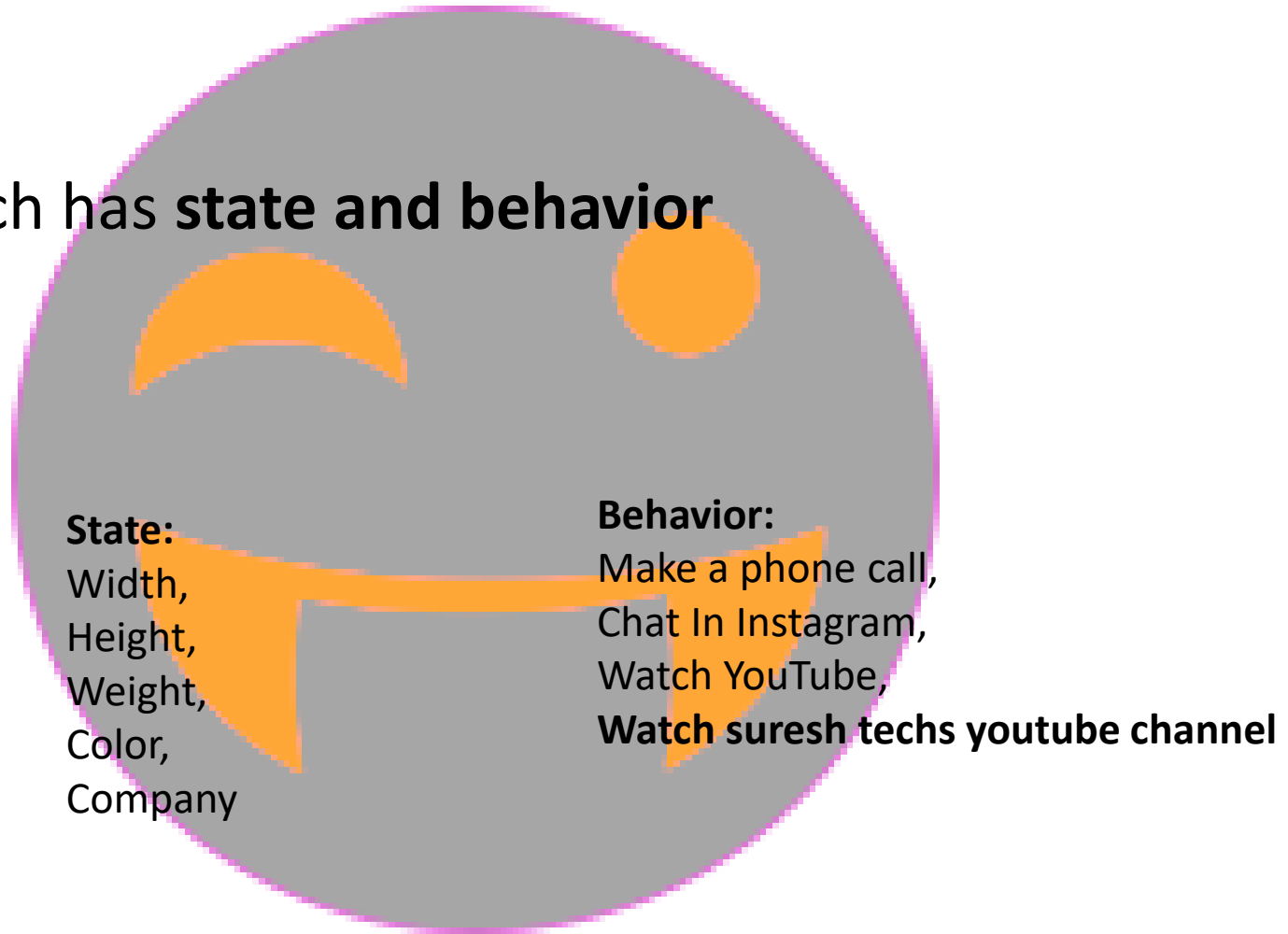
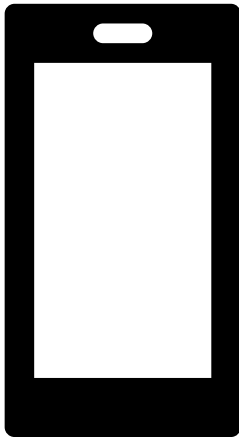
0101110010100001000010
1010000101001001000010
1010101010010100000010
0000101010111001000010
1010010011000001000010

What is there in Java?



Object?

- Anything thing which has **state and behavior**

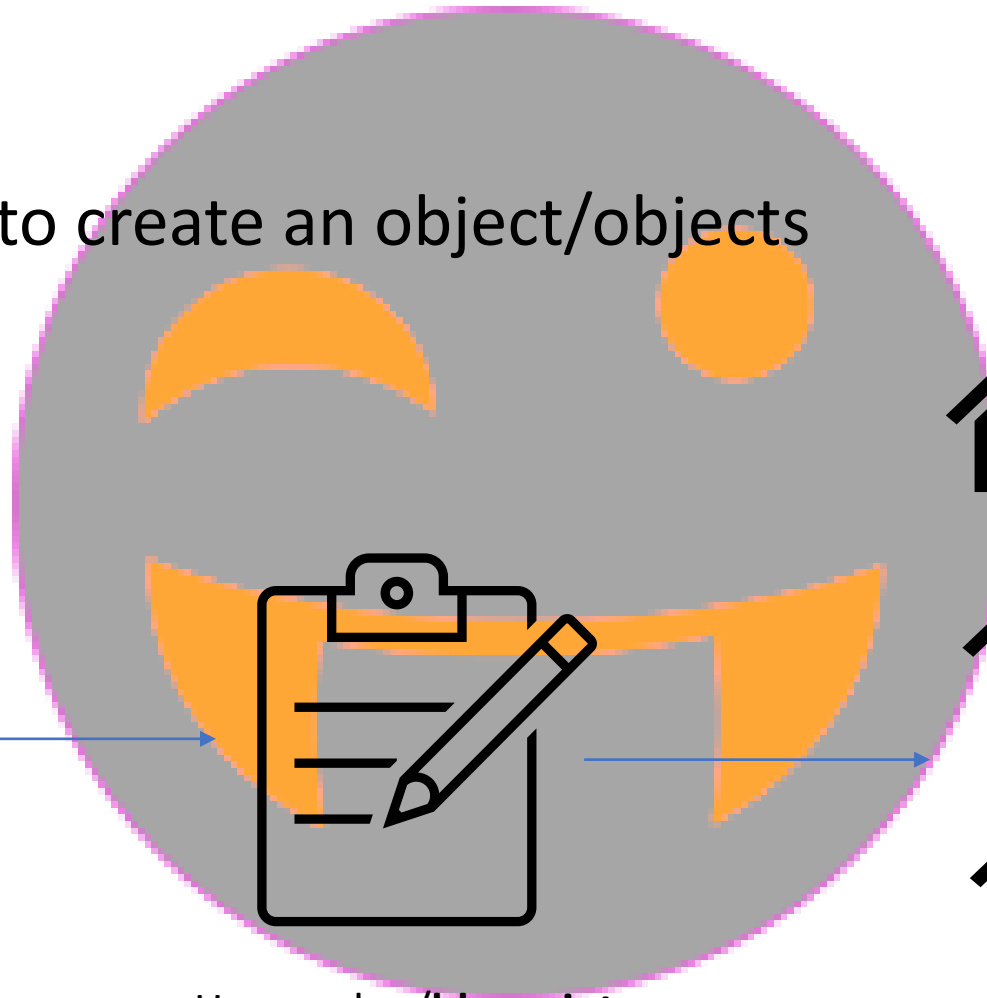


Class

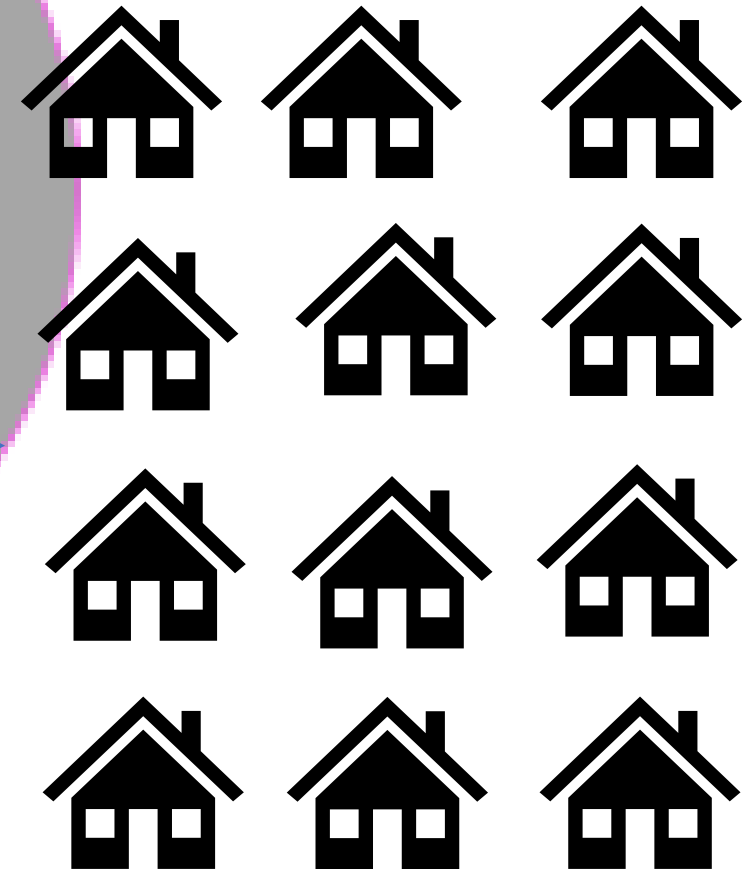
- Class is a **blueprint** to create an object/objects



Object



House plan/**blueprint**



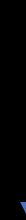


OBJECT



CLASS

```
class Mobile{  
    String name;  
    int weight;  
  
    void call(){  
    }  
  
    void chat(){  
    }  
}
```

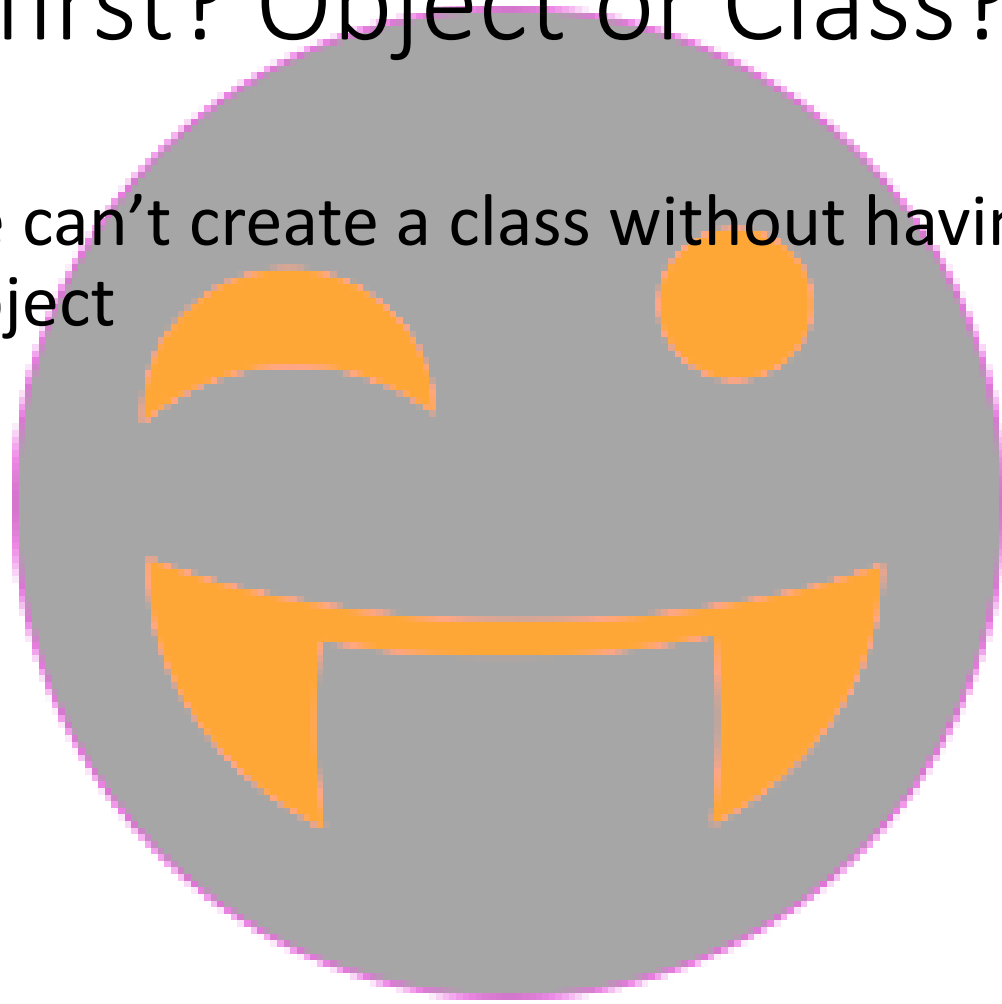


OBJECT IN PROGRAM

Mobile mobile1 = new Mobile()


Which one is first? Object or Class?

- **Object is first** as we can't create a class without having prior knowledge of an object



Syntax to create a class

```
class className{  
    //State or Properties  
    //Behaviour or Functions  
}
```



```
class Mobile{  
    String name;  
    int weight;  
  
    void call(){  
    }  
  
    void chat(){  
    }  
}
```

Write your own classe

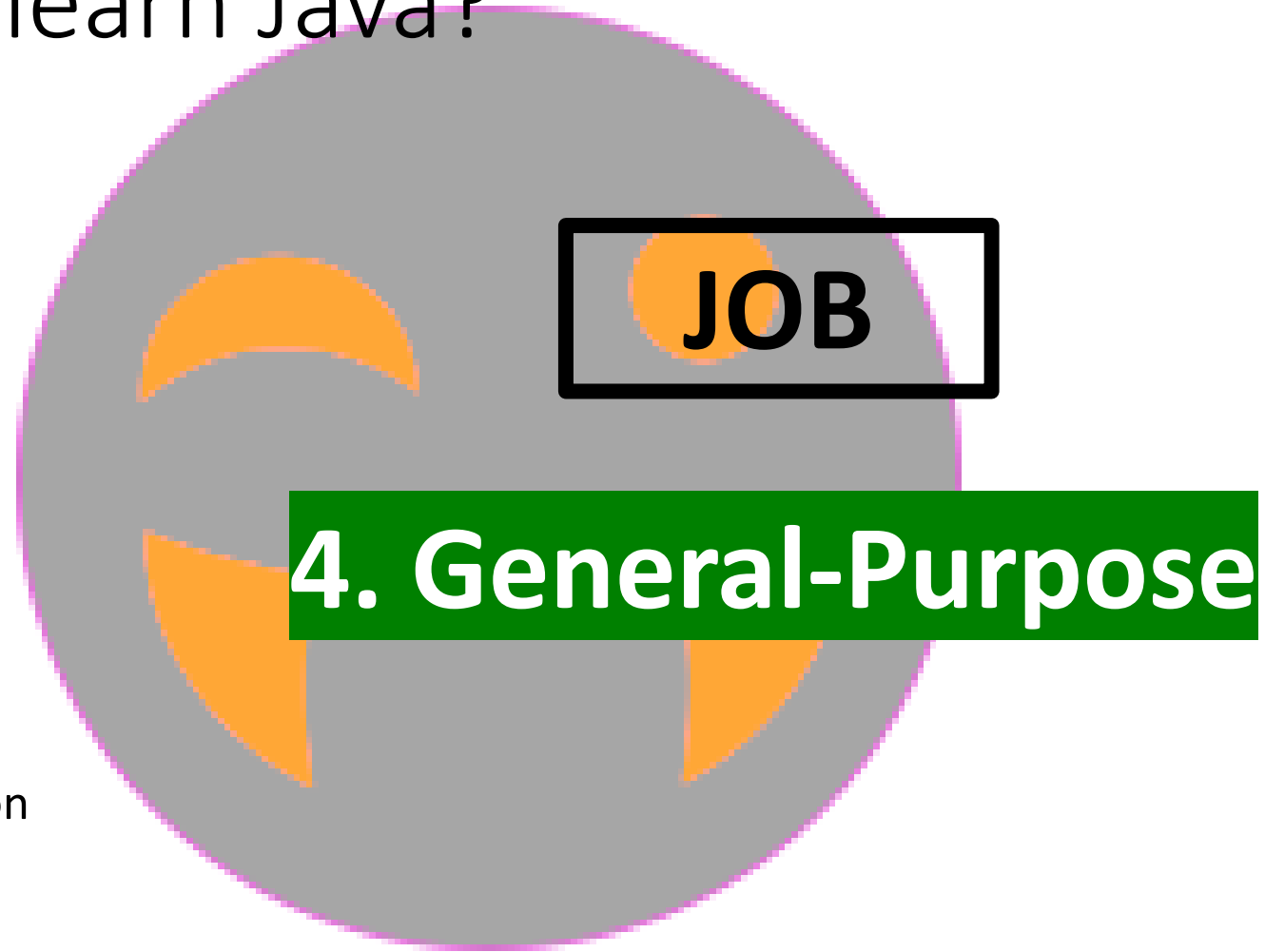
- House
- Road
- Student
- Bus
- Train
- Vehicle



3. Object Oriented (99%)

Why should I learn Java?

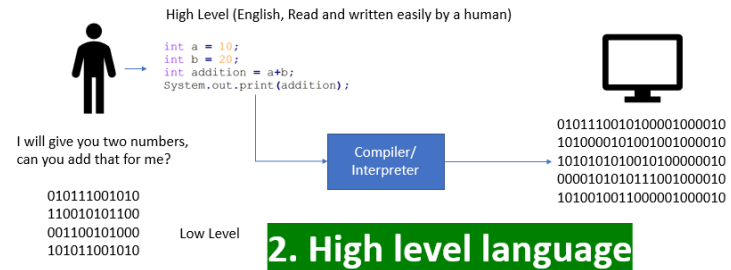
- Desktop GUI Applications
- Mobile Applications
- Enterprise Applications
- Scientific Applications
- Web-based Applications
- Embedded Systems
- Big Data Technologies
- Distributed Applications
- Cloud-based Applications
- Web servers and Application servers
- Software Tools
- Gaming Applications



Why should I use Java?

- Desktop apps using AWT(Abstract windowing toolkit), swings, JavaFX
- Mobile apps...most of the apps available in play store are developed using Java and Android studio. Kotlin now a days.
- EX: Netflix, uber are developed using Java
- Web apps using servlets, struts, jsps(java server pages), spring, hibernate, web servers like apache tomcat, apache http web server etc
- Games using jmonkey engine for 3d games, libgdx for 2d games

What is Java?

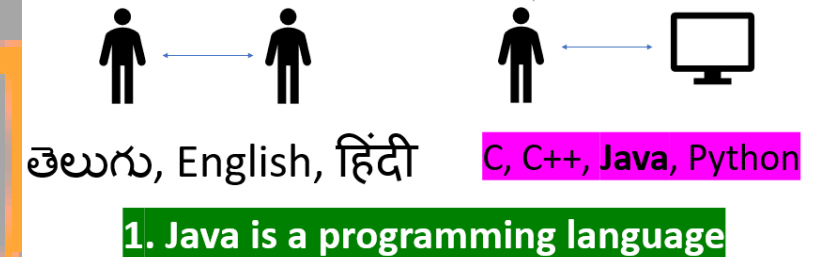


- Desktop applications
- Mobile applications
- Web applications
- Enterprise applications
- Embedded systems
- Bigdata technologies
- Etc...

4. General-Purpose

- House
- Road
- Shop
- Bus
- Train
- Vehicle

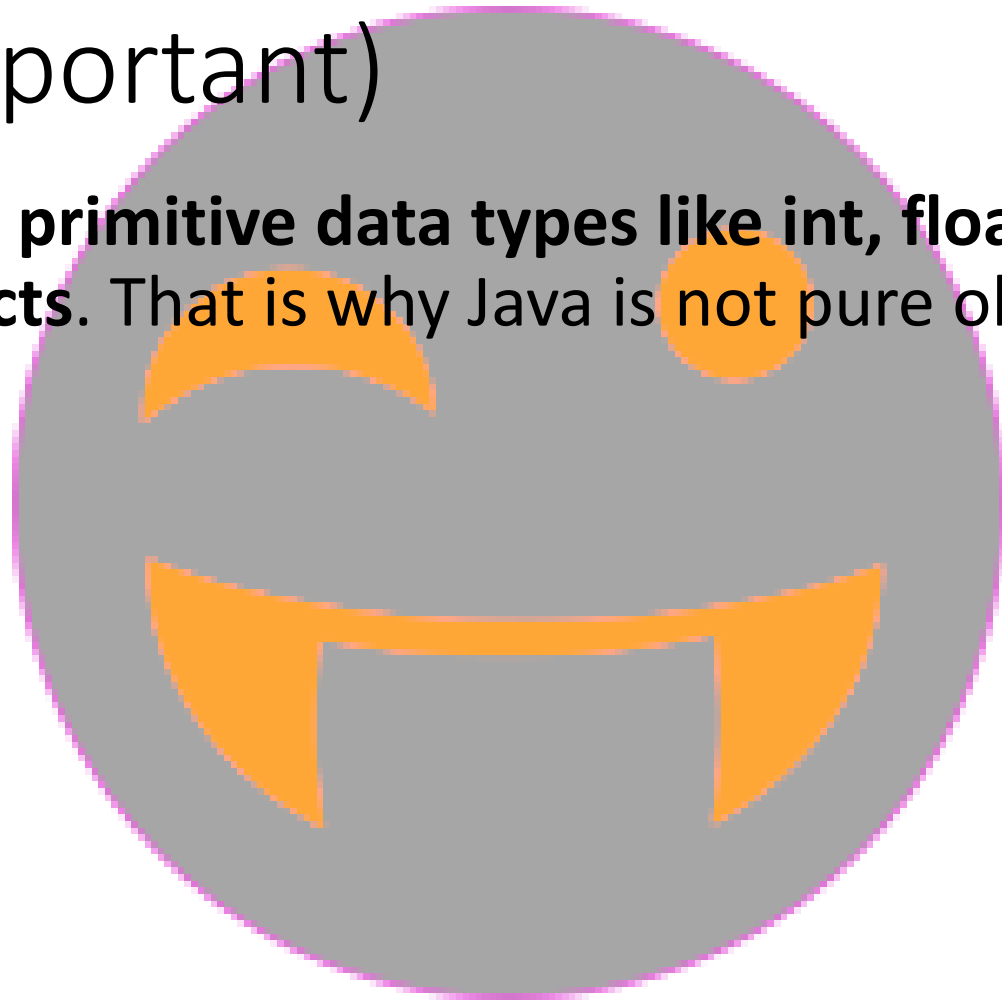
3. Object Oriented (99%)



It is a high level, general-purpose, class-based, object-oriented programming language.

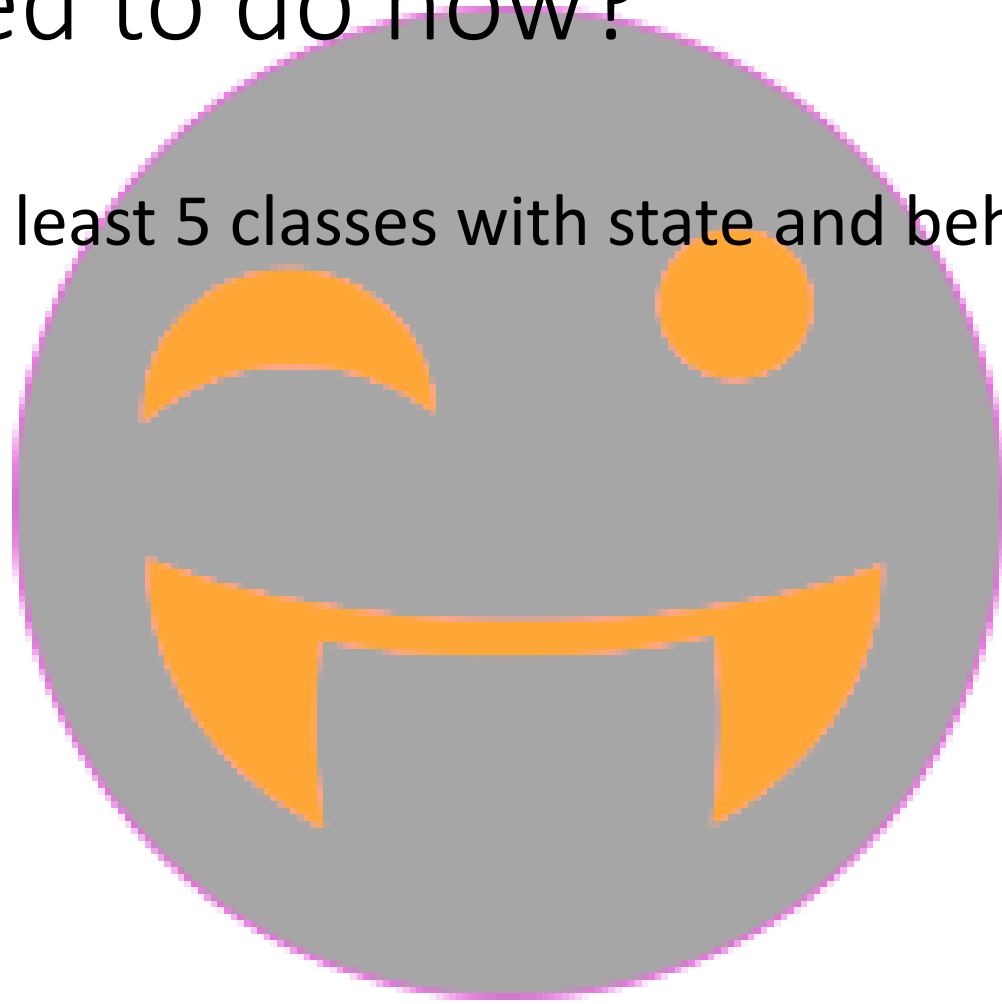
Why Java is not a purely object-oriented language?(Important)

- Because it supports **primitive data types like int, float, double etc., which are not objects**. That is why Java is not pure object-oriented language.



What you need to do now?

- Go out and write at least 5 classes with state and behaviour
- Ex: Student
 - State
 - Name
 - Height
 - Class
 - Roll no
 - Behaviour
 - Read
 - Write Exams
 - Play Games



అద్భుతమైన భాష ని కనిపెట్టిన, ఆ గొప్ప వ్యక్తి ఎవరు?

What next?

History of Java



చిన్న బ్రేక్ చిటికలో వచ్చేస్తా

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