Chapter 3

Interview Questions- Part 1

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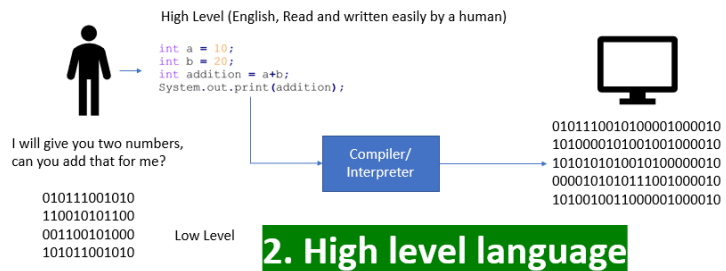
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What is Java?

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

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

```
010111001010000100010
101000010100100100010
101010101001010000010
000010101011001000010
101001001100001000010
```
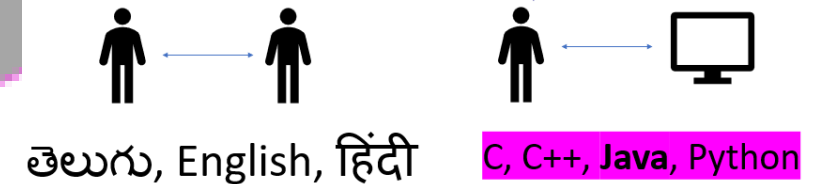
2. High level language

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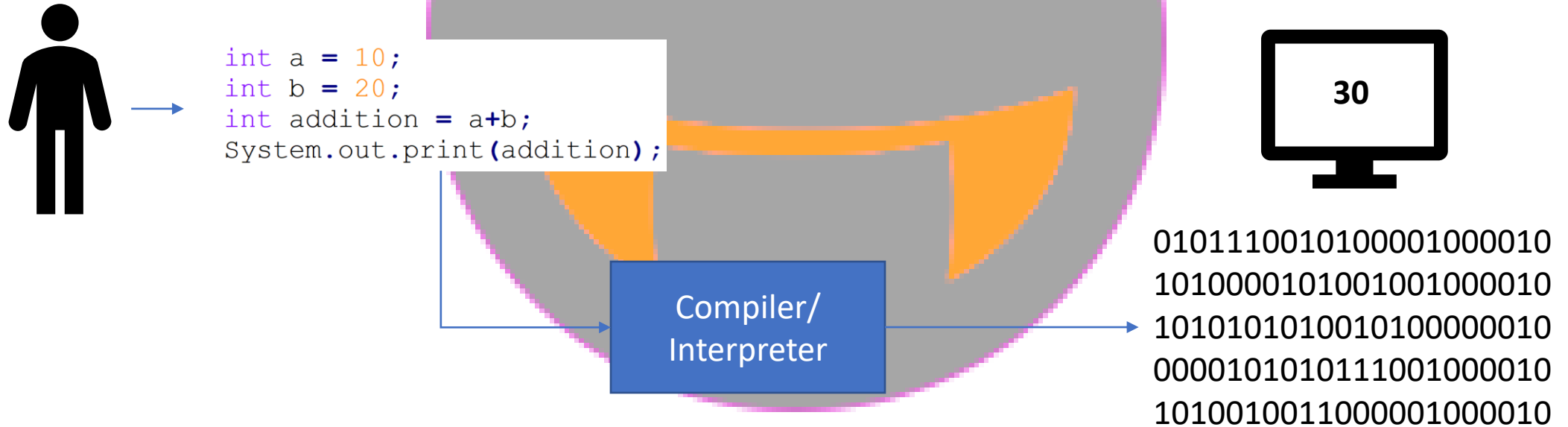- Bigdata technologies
- Etc...

4. General-Purpose

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

3. Object Oriented (99%)

```
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);
    }
}
```

తెలుగు, English, हिंदी   C, C++, **Java**, Python

1. Java is a programming language

What a computer can understand?

- Only 0's and 1's

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

Compiler/
Interpreter

30

010111001010001000010
101000010100100100010
101010101001010000010
000010101011001000010
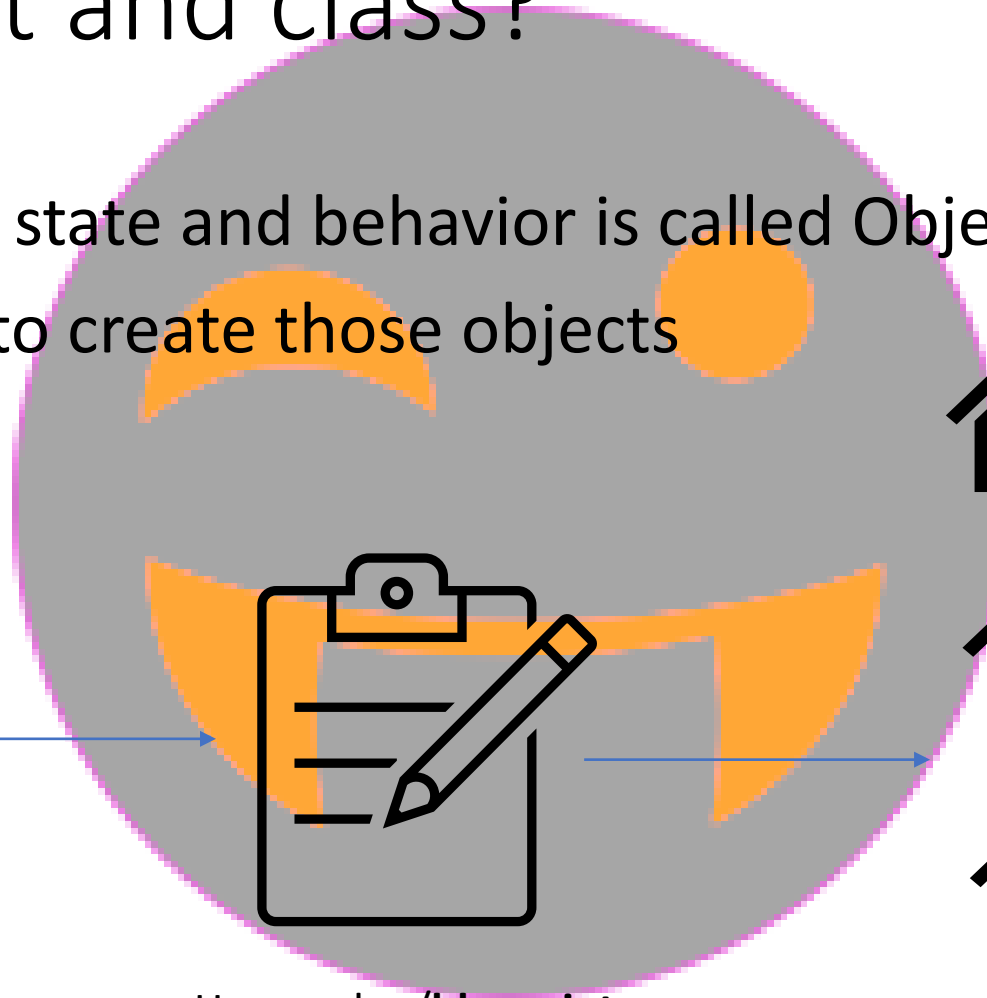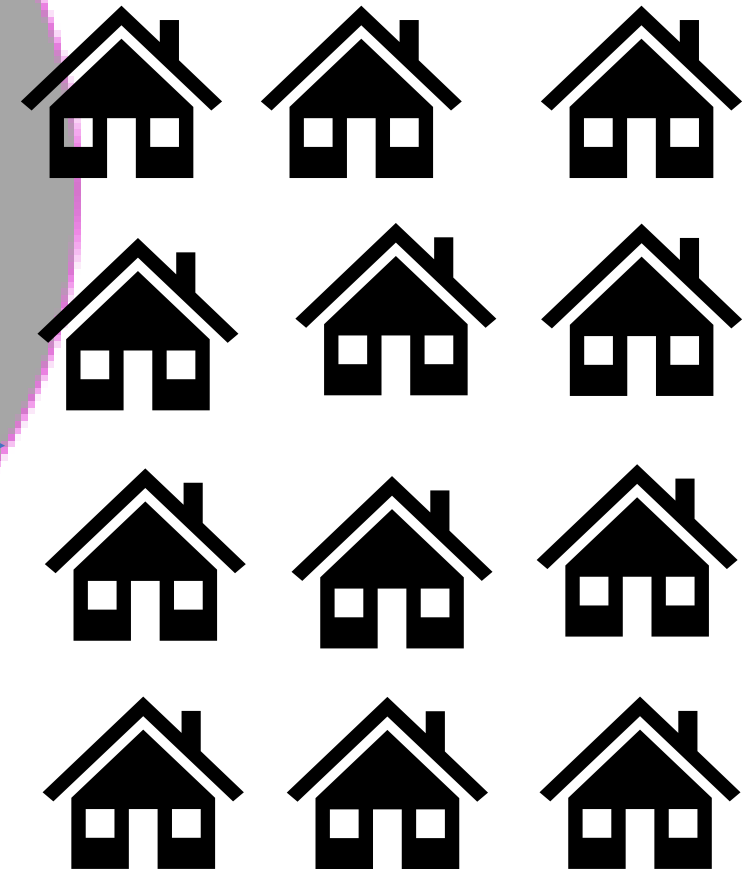101001001100001000010

What is object and class?

- Anything which has state and behavior is called Object
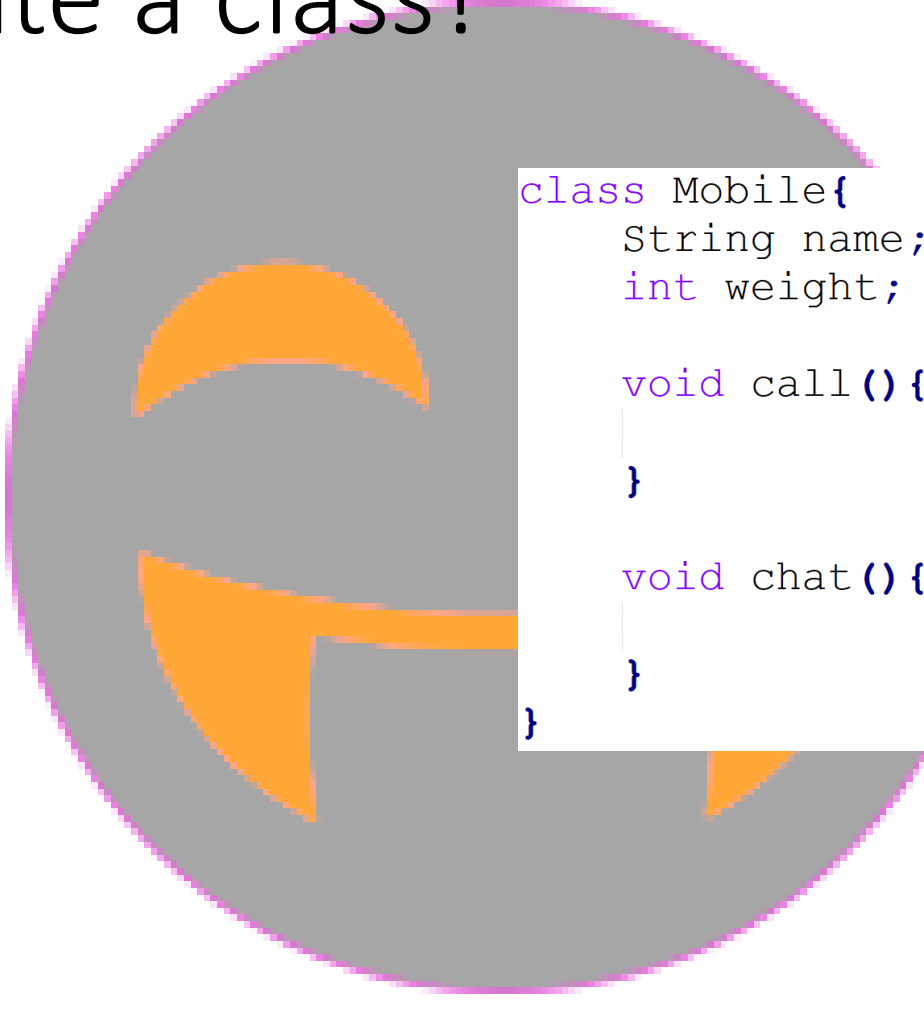- Class is a blueprint to create those objects

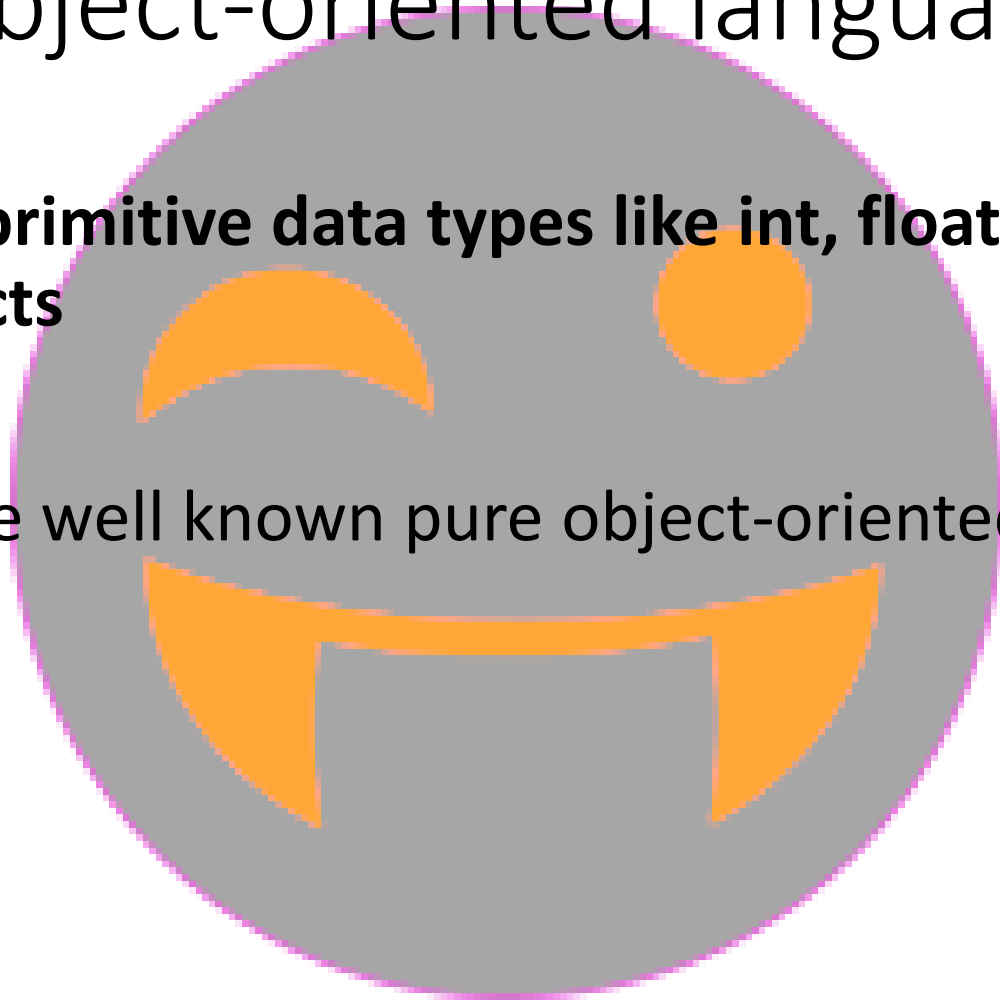Object

House plan/**blueprint**

Syntax to create a class?

class className{

    //state

    //behavior

}

```
class Mobile{
    String name;
    int weight;

    void call(){

    }

    void chat(){

    }
}
```
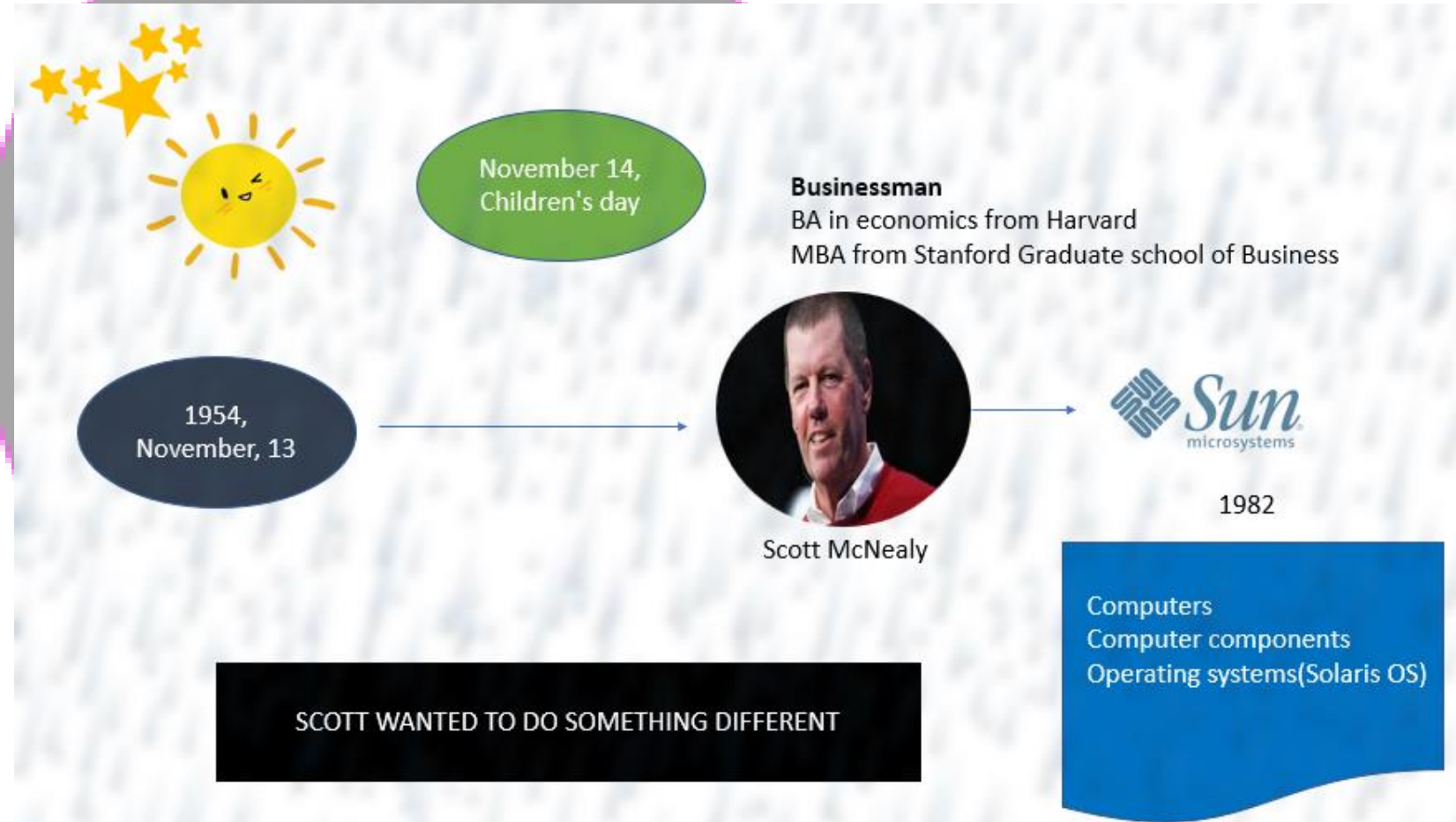
Is Java pure object-oriented language?

- No, because it has **primitive data types like int, float, double** etc which are **not objects**

- Then what are some well known pure object-oriented programming languages?

- **Smalltalk and Self**

Who is the CEO of Sun microsystems?

- Scott McNealy
- November 13, 1954

What is the team formed to invent java language?
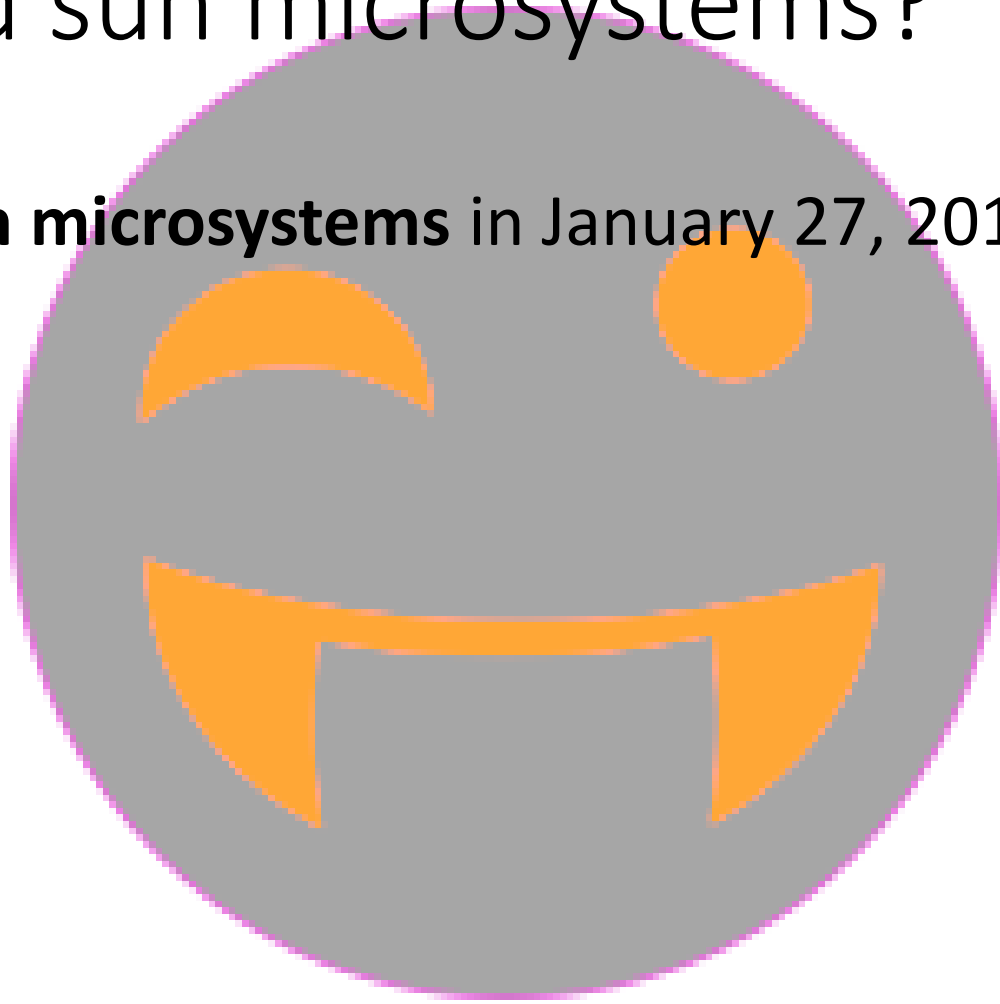
- Green team

GREEN TEAM

What is the name of Java language before it was named Java

- Oak

Who acquired sun microsystems?

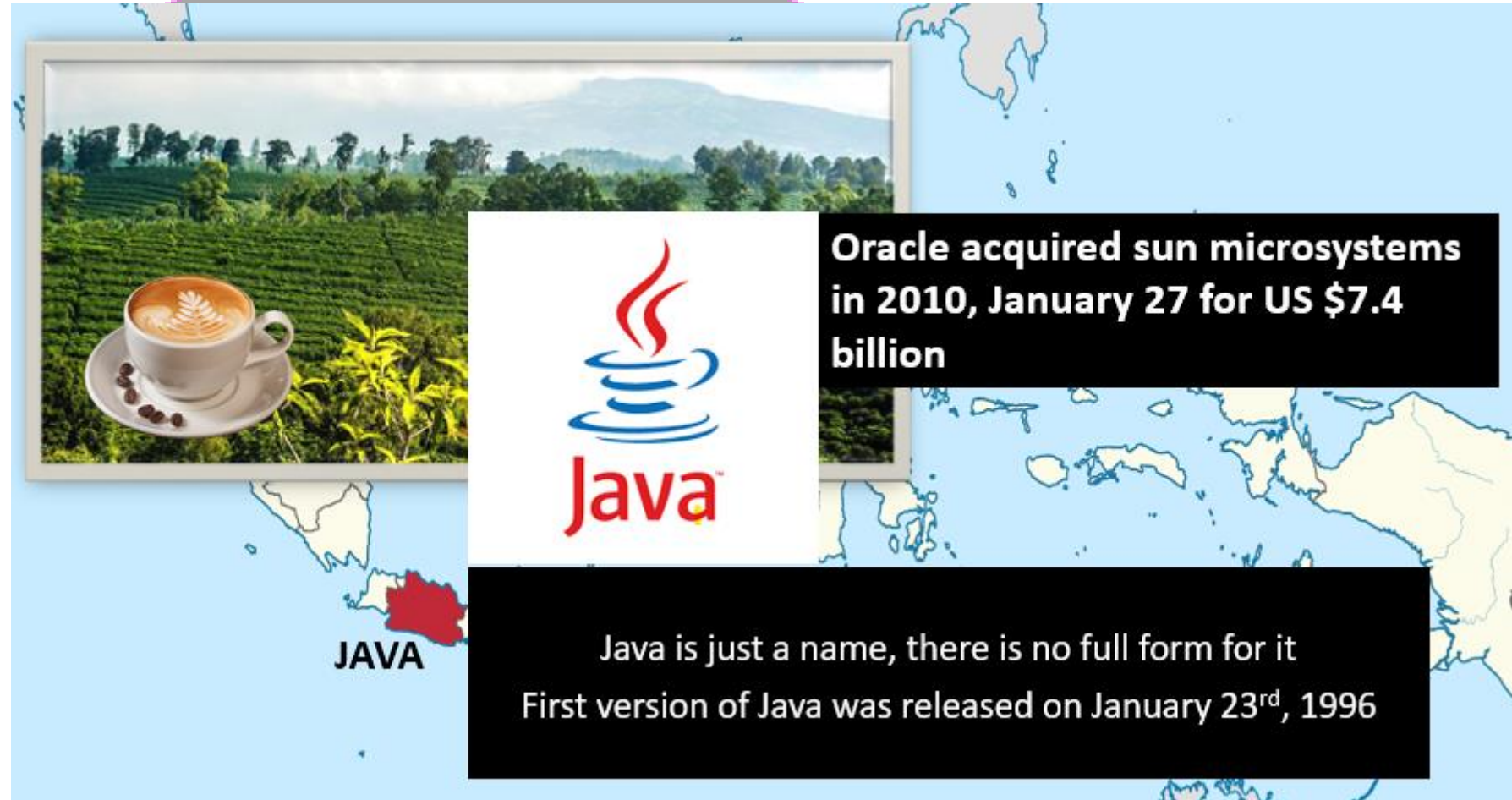- **Oracle** acquired **sun microsystems** in January 27, 2010, for $7.4 billion
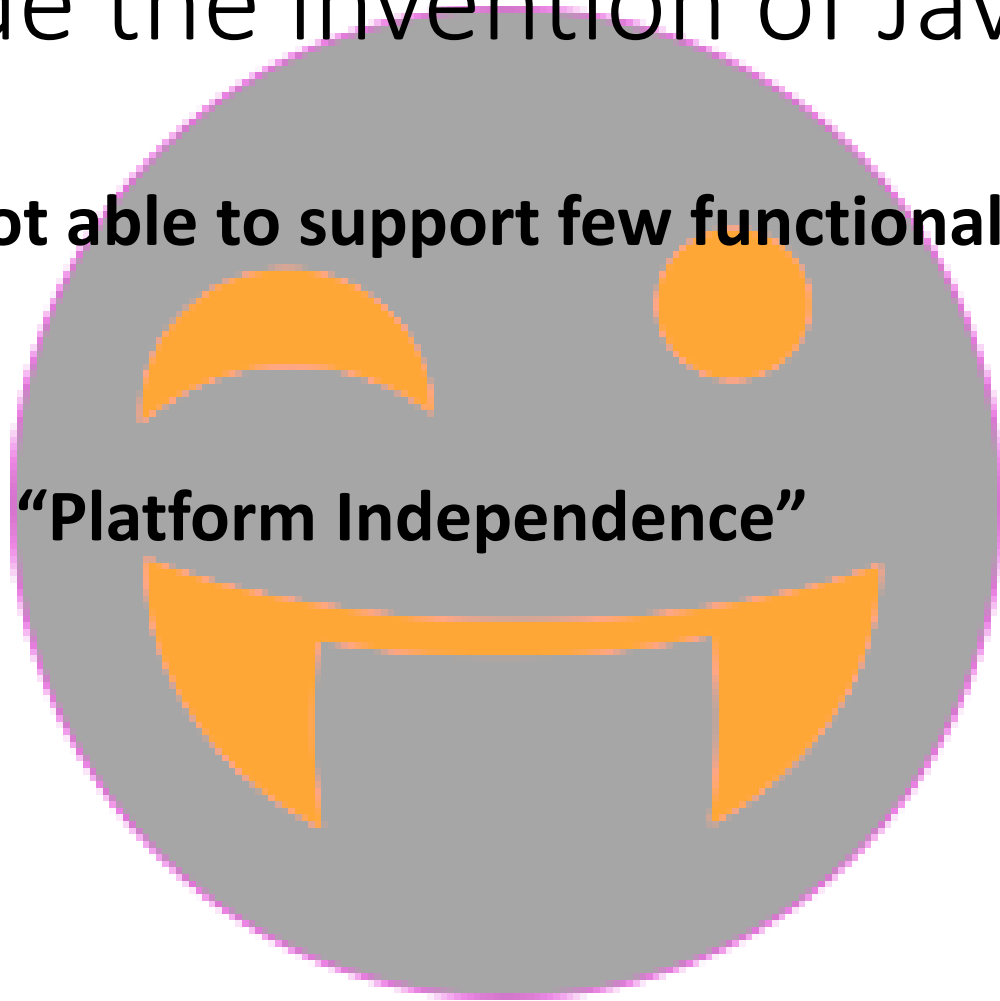
When was Java invented?

- 1995

Why Java language is named Java?

- Coffee story
- Java island in Indonesia

Oracle acquired sun microsystems in 2010, January 27 for US $7.4 billion

JAVA

Java is just a name, there is no full form for it
First version of Java was released on January 23rd, 1996

But what made the invention of Java?

- Because **C++ was not able to support few functionalities** that green team is expecting.

- One among them is **"Platform Independence"**

What next?

Platform Independence? **But before that let's feel a Java program.**

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