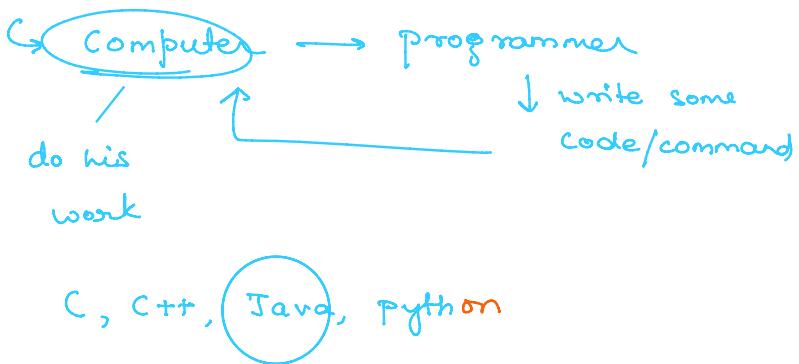


- Repeat → which portion
- I want everyone in this class has to participate
- Connect with Q&A.
- Interaction with educator in chat.
- Introduction to Programming -
 - What is language.
 - Types of programming lang.
 - What is Java?
 - features of Java?

lang. → mode of comm. → share ideas, opinions to each other.

What is programming lang.



- Task → Develop desktop Application.
 - games
 - websites
 - mobile applications

• Types of programming language.

- High level
 - Programmer friendly
- Low Level
 - machine friendly lang.

mm

- programmer friendly lang.
↪ Java, C, C++
- machine friendly lang.
- less memory efficient
memory ↙
- more memory efficient.
- simple to debug
- diff to debug
- It is simple to maintain
- It complex to maintain

What is Java ?

- high level, general purpose, object-oriented, and secure programming lang → James Gosling at Sun Microsystems

in 1991. formerly it is known as OAK.

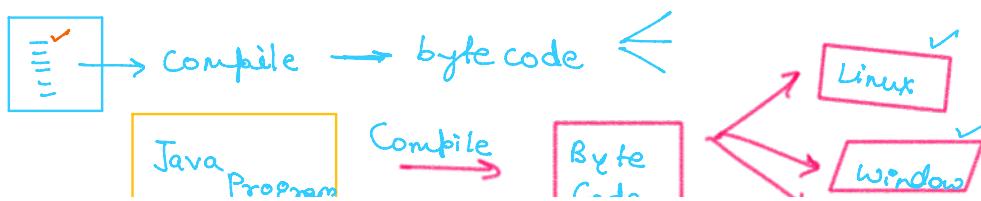
In 1995 → Sun Microsystems ^{OAK} → Java

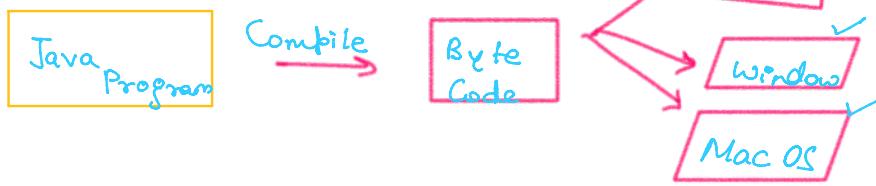
In 2009 → Oracle Corporation.

Features of Java

- Simple → its syntax is simple, clear, easy to understand.
- Secure →
- platform-independent
OS → Windows, Mac OS, Linux

- Compiler → the whole code is compiled at once
- Interpreter → line by line





- Tips for Beginners
 - Writing code.

- Keyboard → input
- Monitor / printer → output

System.out.println(); → click one enter

System.out.print();

H

```

System.out.println("Hello World");
System.out.println("Geekster");
  
```

```

System.out.print("Hello World");
System.out.print("Geekster");
  
```

Challenge

1) Print "Hello World. I am here."

2) Print the below pattern

```

Hello
World.
I
am
here.
  
```

3) Print *****

4) Print the below pattern

```

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

5) Print the below pattern

```

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

- 6) Add two numbers 10,20.

-Multiply three numbers 10,20,30.

-Subtract two numbers 40-20.



- 7) Find the sum and product of 20, 30, 50.

- 8) Divide two numbers 25/10. — quotient

$438 \% 9$ → modulo operator

- ✓ 9) Find the remainder when 438 is divided by 9.

$$10 \sqrt{2.5} \quad \begin{array}{l} \text{2} \xrightarrow{\text{quotient}} \\ \text{divisor} \end{array}$$

$$\begin{array}{r} \cancel{2} \\ \underline{5} \end{array} \quad \begin{array}{l} \text{5} \xrightarrow{\text{remainder}} \\ \text{mod. op.} \end{array}$$

$$9 \sqrt{438} \quad \begin{array}{r} 43 \\ -36 \\ \hline 78 \end{array}$$

$$\begin{array}{r} \cancel{7} \\ \underline{8} \\ \underline{72} \\ \hline 6 \end{array}$$

Find the remainder when 4596 is divided by 10.

$$10 \sqrt{4596} \quad \begin{array}{r} 459 \\ -40 \\ \hline 59 \\ -50 \\ \hline 96 \\ -90 \\ \hline 6 \end{array}$$

6 → remainder

- If someone wants you to fetch the last digit → 1395

$$1395 \% 10$$

5 ans

- If someone want you to remove the

- If someone want you to remove the last digit

$$131\overline{)13} / 10$$

131 → quotient
 10 ↓
 1313
 10 ↓
 31
 $\frac{30}{13}$

- 1) Print "Hello I am enjoying coding"
- 2) Print the below pattern:
 Hello
 I
 am
 enjoying
 coding
- 3) Find the sum, product of 100,8,3
- 4) Find the difference between 100 and 40.
- 5) Print the below pattern

- 6) Print the below pattern
 * *

 * *

 * *

 * *

 * *

- 7) Find the last digit of the number 987653.