JAVASCRIPT JAVA AND PYTHON

Major differences between JavaScript, Java and python

- ➢ Java, JavaScript, and Python are popular programming languages used for various purposes in software development.

- ➢ JavaScript is used for front-end web development and interactive web application.

- ➢ Python is a great option for data science and machine learning tasks because of its simple syntax similar to the English language.

- ➢ Java is used for developing various applications including webs, mobile and desktop. It is a very complex language.

THE DIFFERENCES AND SIMILARITIES I NOTICED BETWEEN JAVASCRIPT JAVA AND PYTHON

➢ Among the three only JavaScript uses the var, let and const keyword to declare a variable.

Python variables are created the moment when you assign a value to it. Python has no command for declaring a value, variables do not need to be declared with any particular type and can even change type after they've been set (basically they can be reassigned) and Java uses class names

CODE BLOCKS

➢ Java uses curly braces { } to define code blocks and semi-colons to terminate statements

```
public class Main {
    public static void main (String[ ] args)  {
        System.out.Println("Hello World");
    }
}
```

➢ JavaScript uses similar syntax to Java, also using curly braces and semi-colons, but with more flexibility in certain areas

➢ Python uses indentation to define code blocks, making it more readable and concise. It does not semi-colons nor curly braces

```
if  5  >  2:
    print("Five is greater than two! ")
```

➢ They print their outputs in different ways

JavaScript uses'

    console.log( )

Java uses

    System.out.Println("   ")

Python uses

    print(   )

SIMILARITIES

➤ They are all case sensitive (Mark is not the same as mark)

➤ All three languages share common arithmetic operators (e.g +, -, *, /) and the assignment operator (=)