What is java?

Java is a multi-platform, object-oriented, and network-centric language that can be used as a platform in itself. It is a fast, secure, reliable programming language for coding everything from mobile apps and enterprise software to big data applications and server-side technologies.

Task 1: Simple Calculator Application

- **Objective:** Create a basic calculator application in Java.

Task 1

```
package week1;
import java.util.*;
public class Calculation {

	public static void main(String[] args) {
    Scanner sc=new Scanner(System.in);
    System.out.println("enter two numbers");
    int a=sc.nextInt();
    int b=sc.nextInt();
    System.out.println("enter an operator do you want to calculate(+,-,*,%)");
    char op=sc.next().charAt(0);
    switch(op) {
    case'+':System.out.println(a+b);
            break;
    case'-':System.out.println(a-b);
            break;
    case'*':System.out.println(a*b);
            break;
    case'%':System.out.println(a%b);
            break;
    default:System.out.println("invalid input");

    }

	}

}
```

Task 1

1 .Take two numbers as user input using the Scanner Class.

2.Take the operation to be performed using the Scanner Class

3.Use logic (if-lse or switch-case) to select the operation to perform on the two operands.

4.Store the computed value in result.

5.Print the result.

Task 2: Number Guessing Game

- **Objective:** Develop a simple number guessing game in Java.

Task 2

```
package week1;
import java.util.*;
public class Task2 {

	public static void main(String[] args) {
	Scanner sc=new Scanner(System.in);
	int a=sc.nextInt();
	int b=sc.nextInt();
	if(a==b)
	{
		System.out.println("correct");
	}
	else {
		if(a>b)
		{
			System.out.println("too high");
		}
		else {
			System.out.println("too low");
		}
	}

	}

}
```