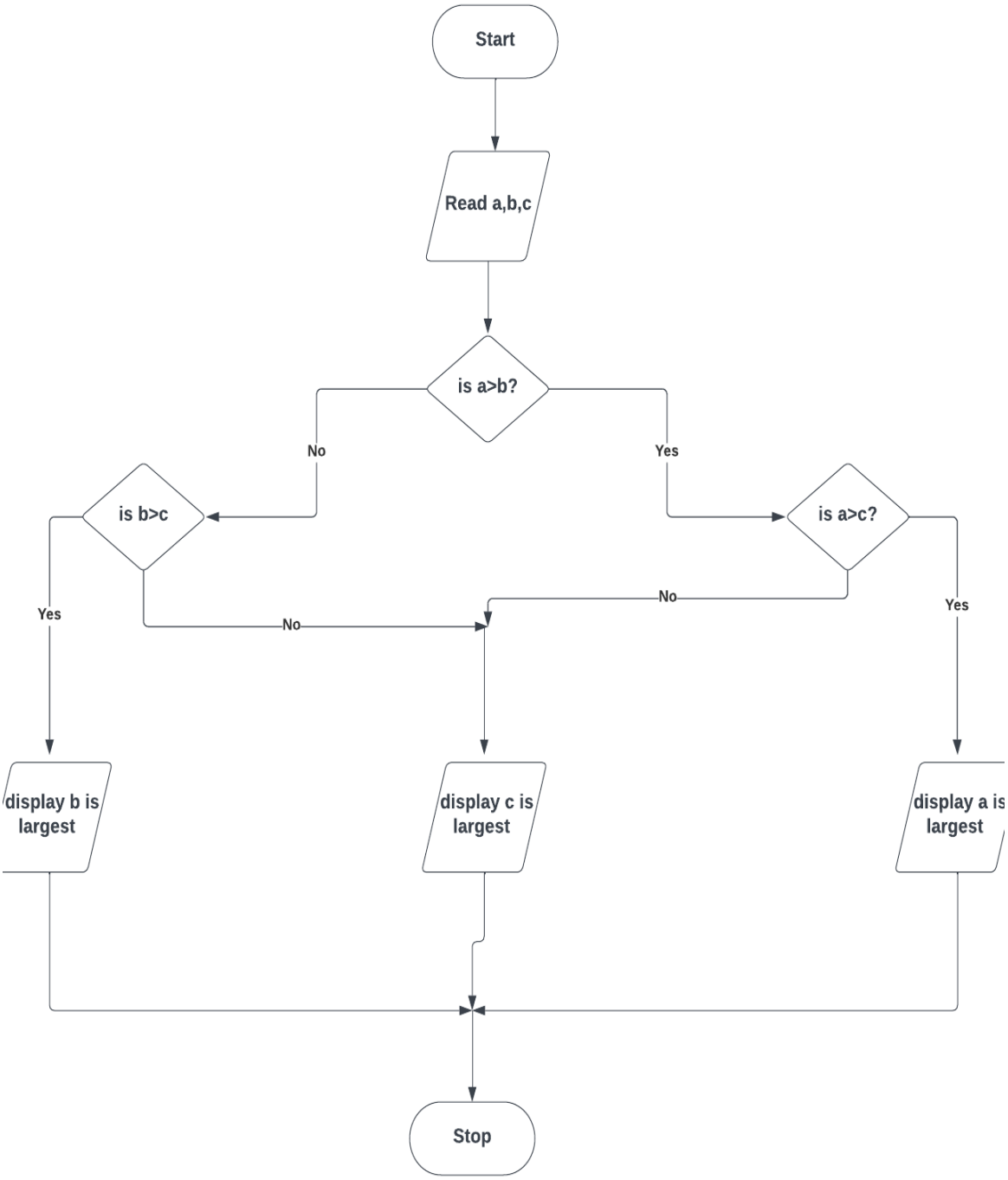
Name: Rupa Karella
Day1 Tasks

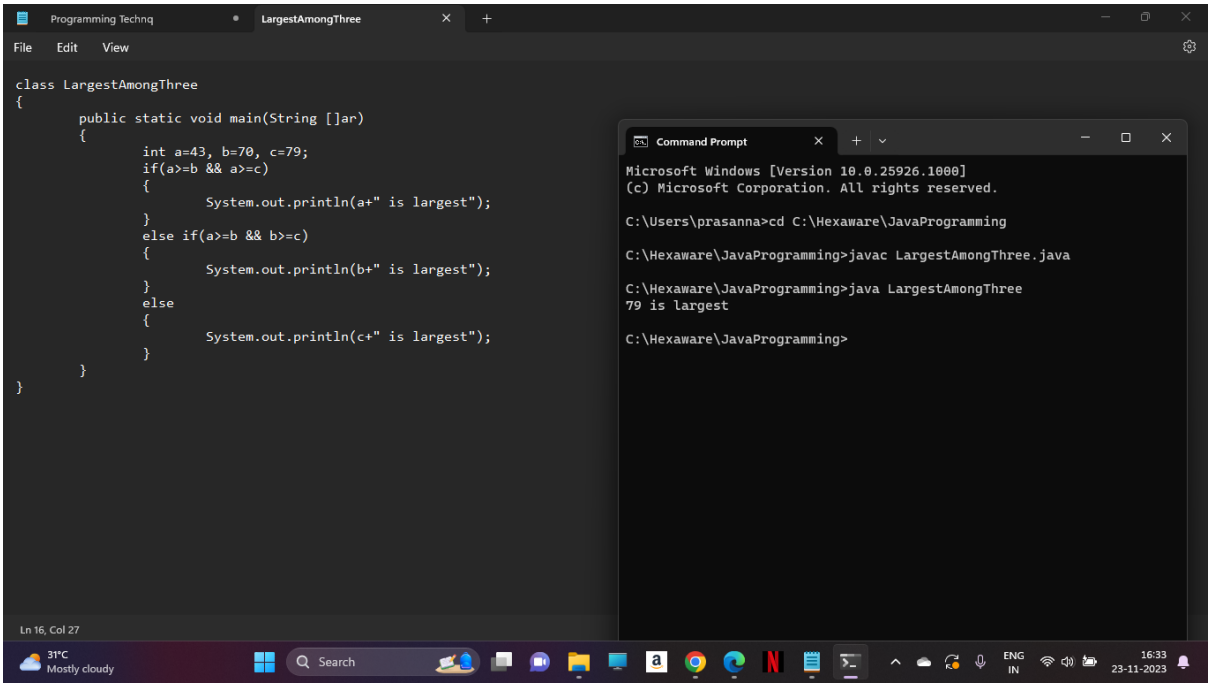
1. **a.Flowchart to find the largest among three numbers**



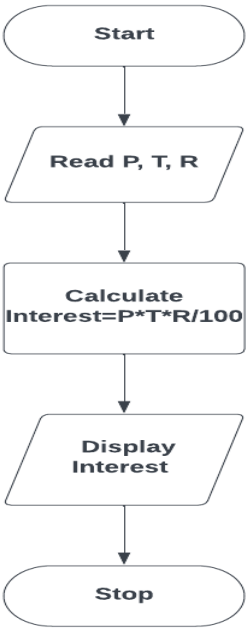
b. Algorithm to find the largest among three numbers

Step 1: Begin
2: Read a,b,c
3: if a>b
3.1: if a>c
3.1.a: Display a is largest
3.2: else if b>c
3.2.a: Display b is largest
3.3: else Display c is largest
4: End.

c. Java program to find the largest among three numbers



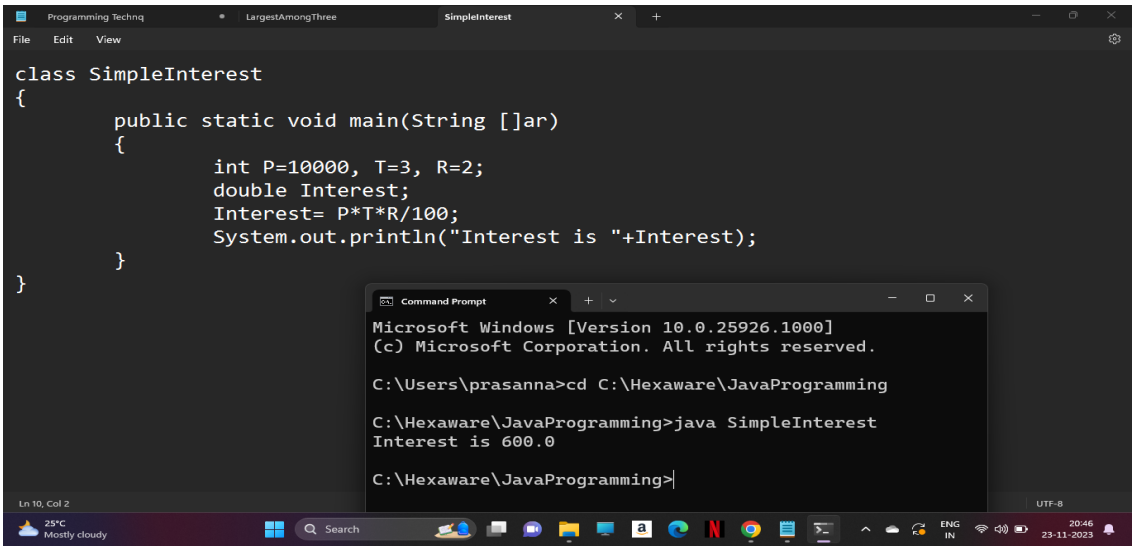
2. a.Flowchart to find the Simple Interest



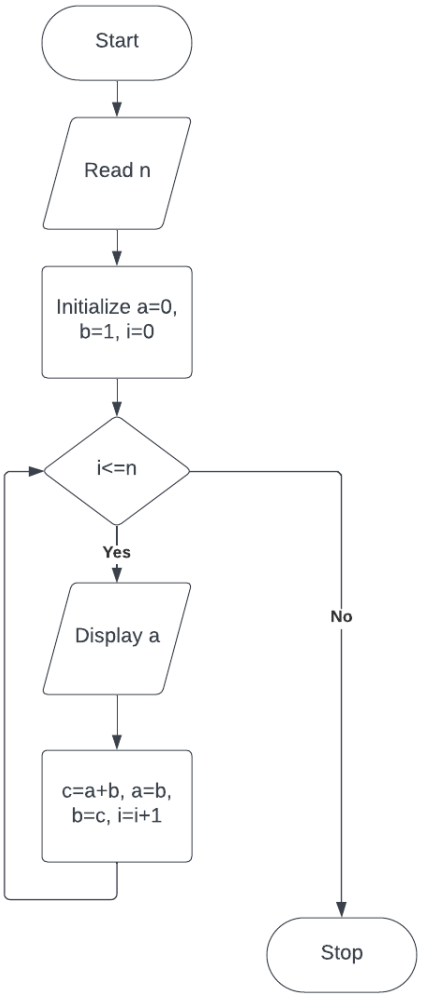
b. Algorithm to find the Simple Interest

Step 1: Begin
2: Read P, T, R
3: Calculate Interest= P*T*R/100
4: Display Interest
5: End.

c. Java program to find the Simple Interest



3. a.Flowchart to display Fibonacci Series



b. Algorithm to display Fibonacci Series

Step 1: Start

2: Read n

3: Initialise variables: a=0, b=1, i=0

4: while i<=n, Repeat the following steps

4.1: Display a

4.2: c=a+b

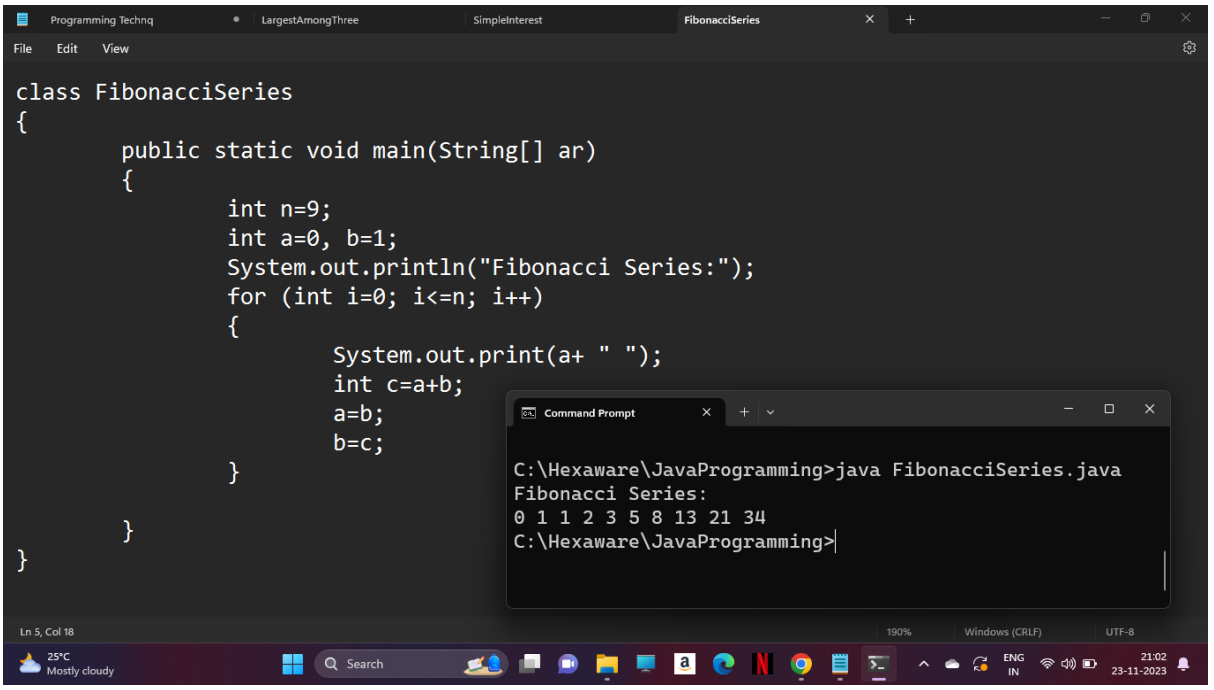
4.3: a=b

4.4: b=c

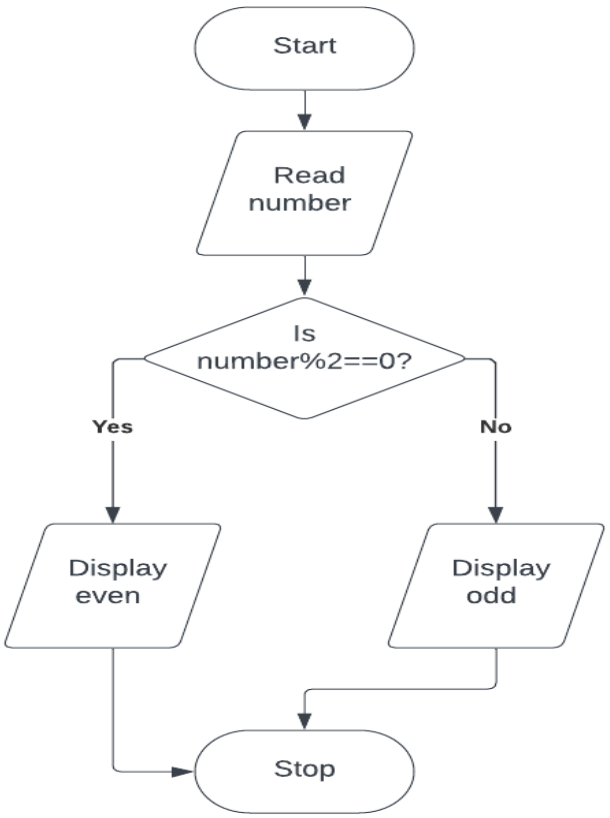
4.5: i=i+1

5. End

c. Java program to display Fibonacci Series



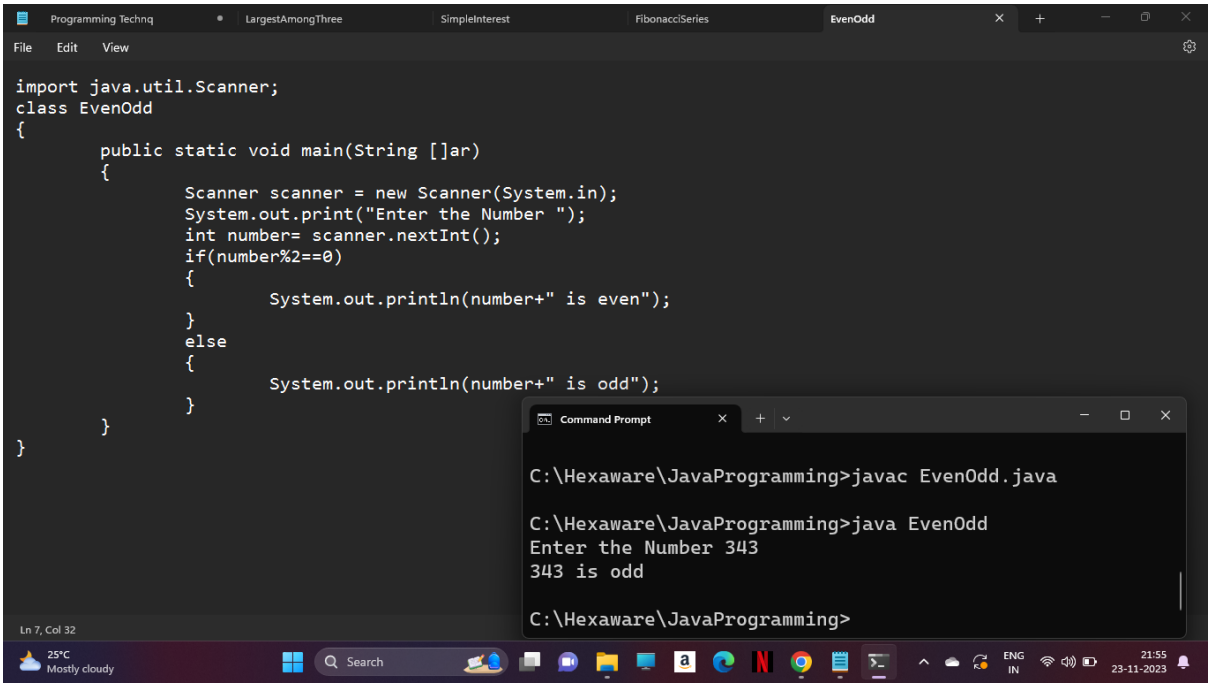
4. a.Flowchart to find a number is even or odd



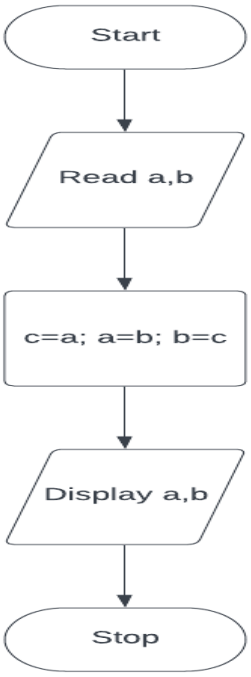
b. Algorithm to find a number is even or odd

Step 1: Begin
2: Read number
3: if number%2==0, display even
4: else Display odd
5: End.

c. Java program to find a number is even or odd



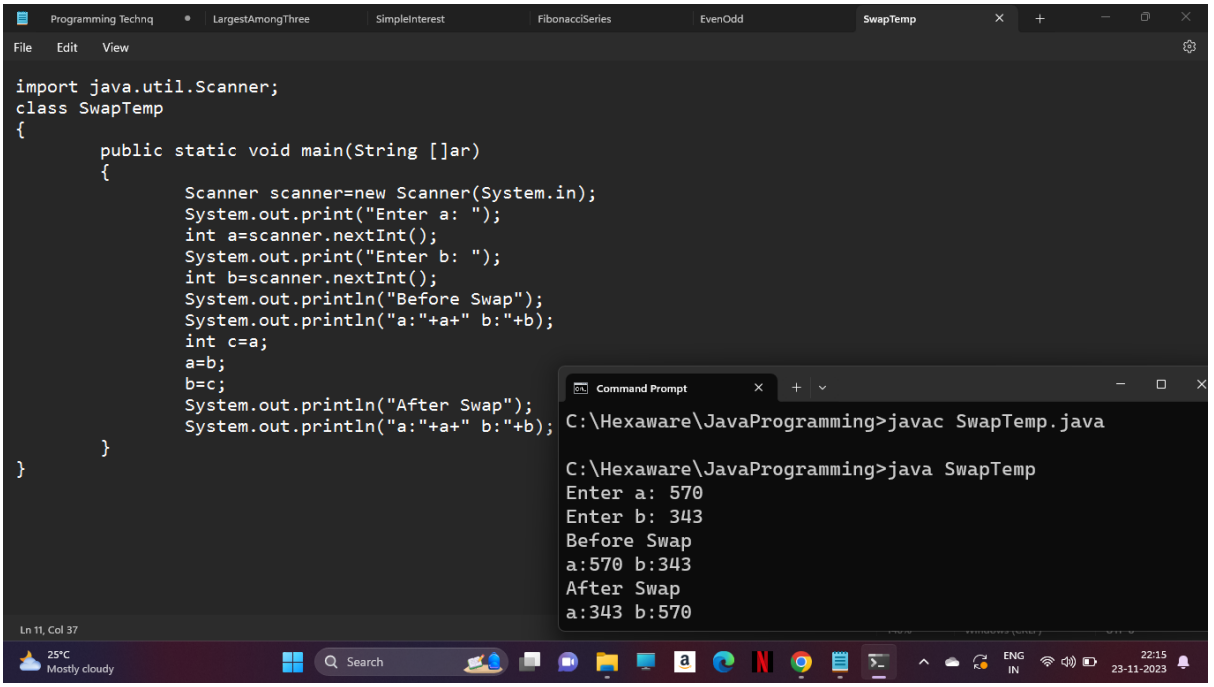
5. a.Flowchart to swap two numbers using temporary variable



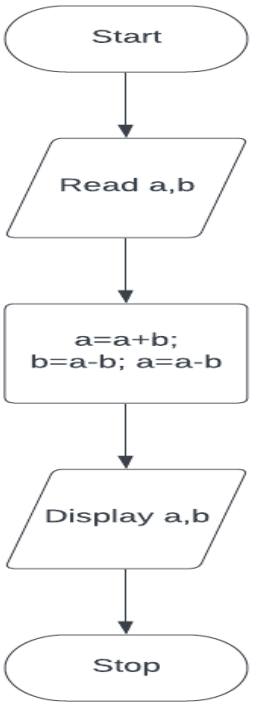
b. Algorithm to swap two numbers using temporary variable

Step 1: Begin
2: Read a,b
3: c=a; a=b; b=c
4: Display a,b
5: End.

c. Java program to swap two numbers using temporary variable



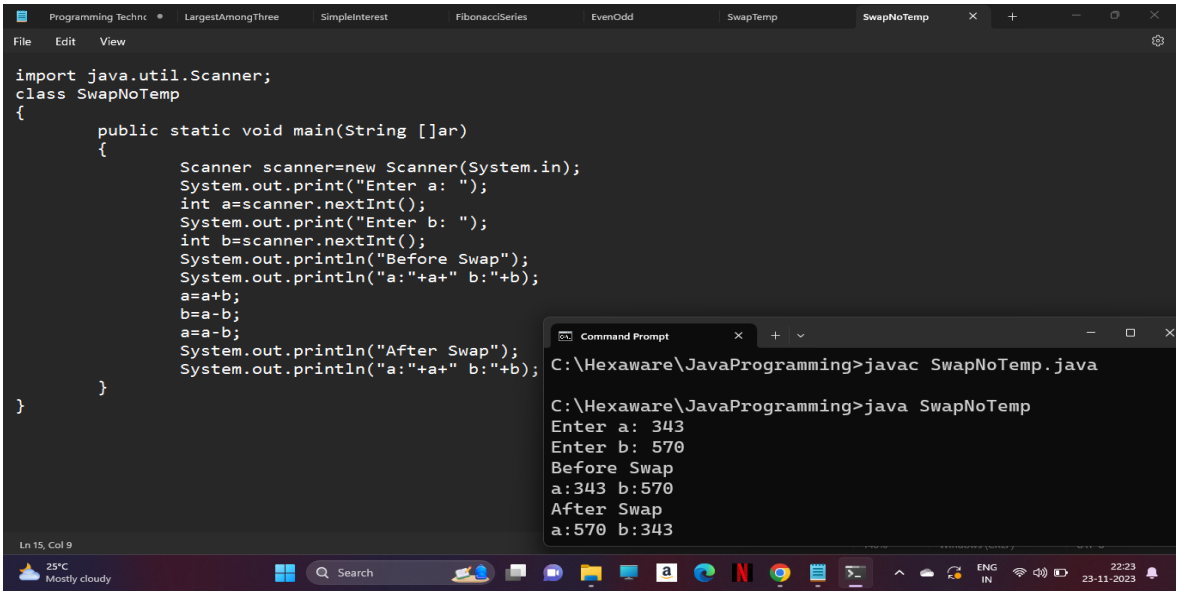
6. a.Flowchart to swap two numbers without using temporary variable



b. Algorithm to swap two numbers without using temporary variable

Step 1: Begin
2: Read a,b
3: a=a+b; b=a-b; a=a-b
4: Display a,b
5: End.

c. Java program to swap two numbers without using temporary variable

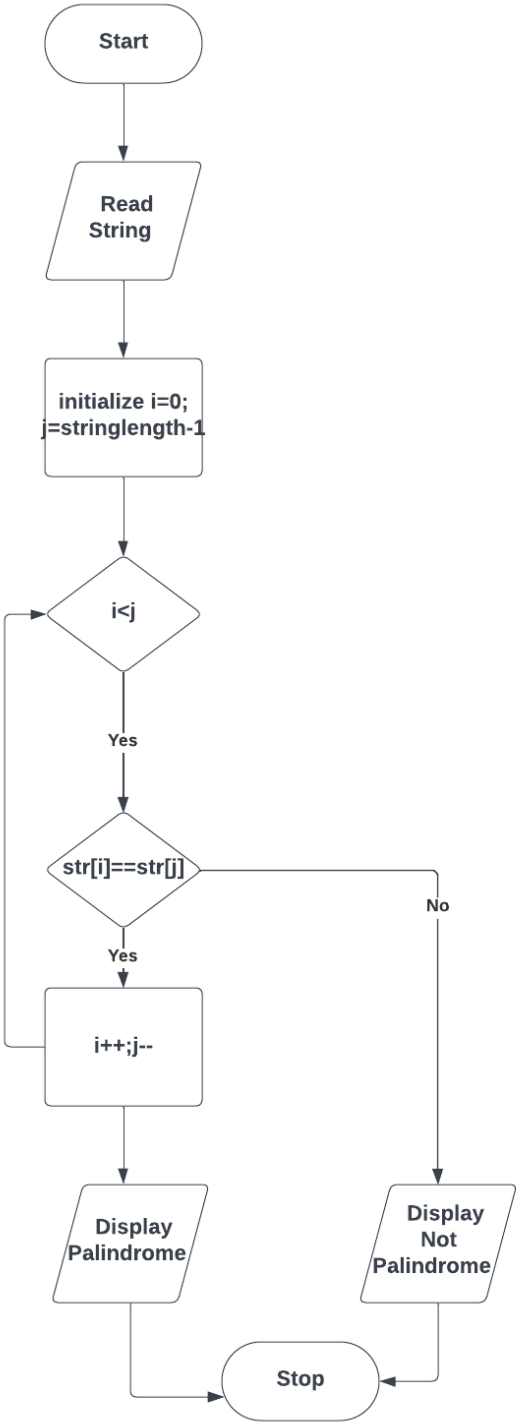


```
import java.util.Scanner;
class SwapNoTemp
{
        public static void main(String []ar)
        {
                Scanner scanner=new Scanner(System.in);
                System.out.print("Enter a: ");
                int a=scanner.nextInt();
                System.out.print("Enter b: ");
                int b=scanner.nextInt();
                System.out.println("Before Swap");
                System.out.println("a:"+a+" b:"+b);
                a=a+b;
                b=a-b;
                a=a-b;
                System.out.println("After Swap");
                System.out.println("a:"+a+" b:"+b);
        }
}
```

```
C:\Hexaware\JavaProgramming>javac SwapNoTemp.java

C:\Hexaware\JavaProgramming>java SwapNoTemp
Enter a: 343
Enter b: 570
Before Swap
a:343 b:570
After Swap
a:570 b:343
```

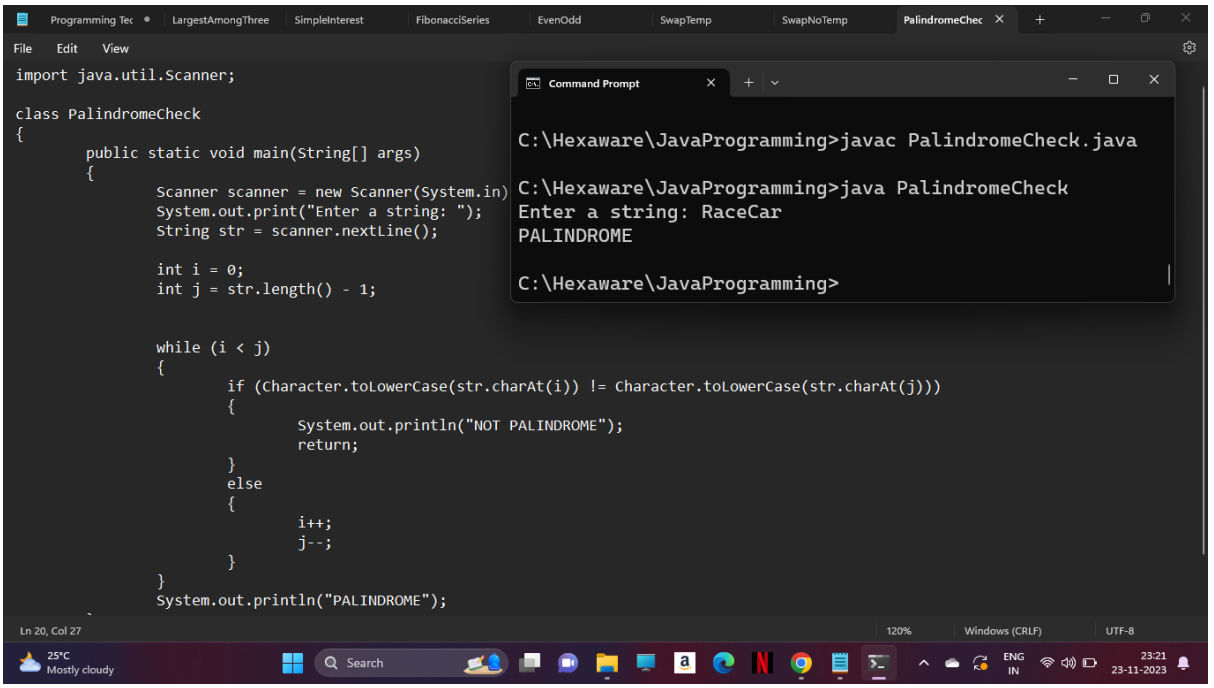
7. a.Flowchart to find a given string is palindrome or not



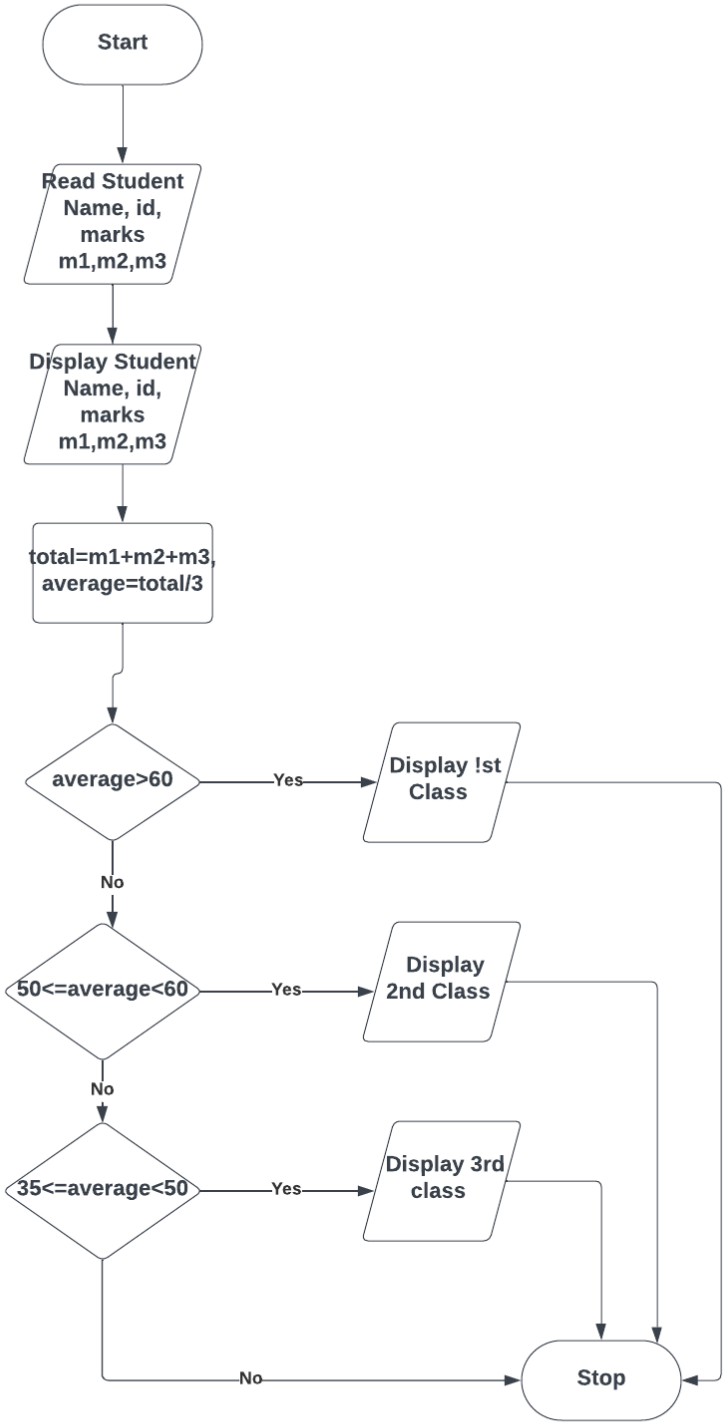
b. Algorithm to find a given string is palindrome or not

Step 1: Start
2: Read String
3: Initialise i=0, j=string length-1
4: while i<j repeat
    4.1: if str[i]!=str[j]
        4.1.a: Display NOT PALINDROME and goto step 6
    4.2: else
        4.2.a: i++;j–
5: Display Palindrome
6: Stop

c. Java program to swap two numbers without using temporary variable



8. a.Flowchart to print student details



b. Algorithm to print student details

Step 1: Start

2: Read Student Name, id, marks m1, m2, m3

3: Display Student Name, id, marks m1, m2, m3

4: Calculate total=m1+m2+m3, average=total/3

5: if average>=60

5.1: Display 1st Class and goto step 8

6: else if 50<=average<60

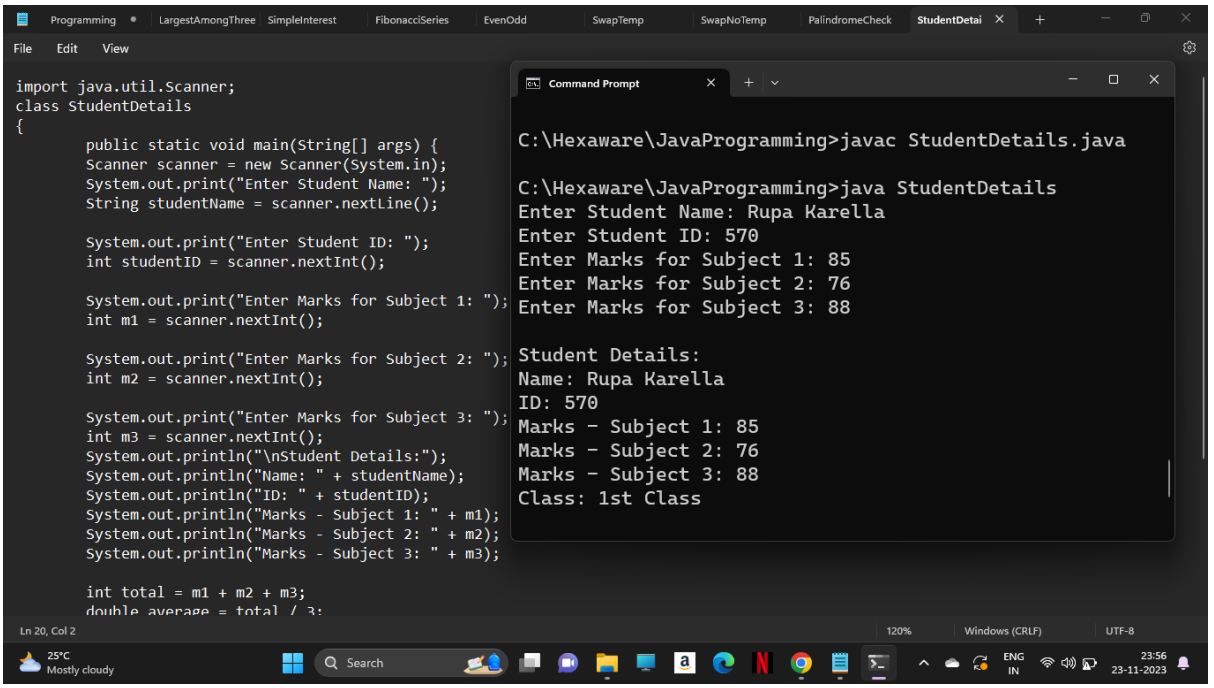
6.1: Display 2nd Class and goto step 8

7: else if 35<=average<50

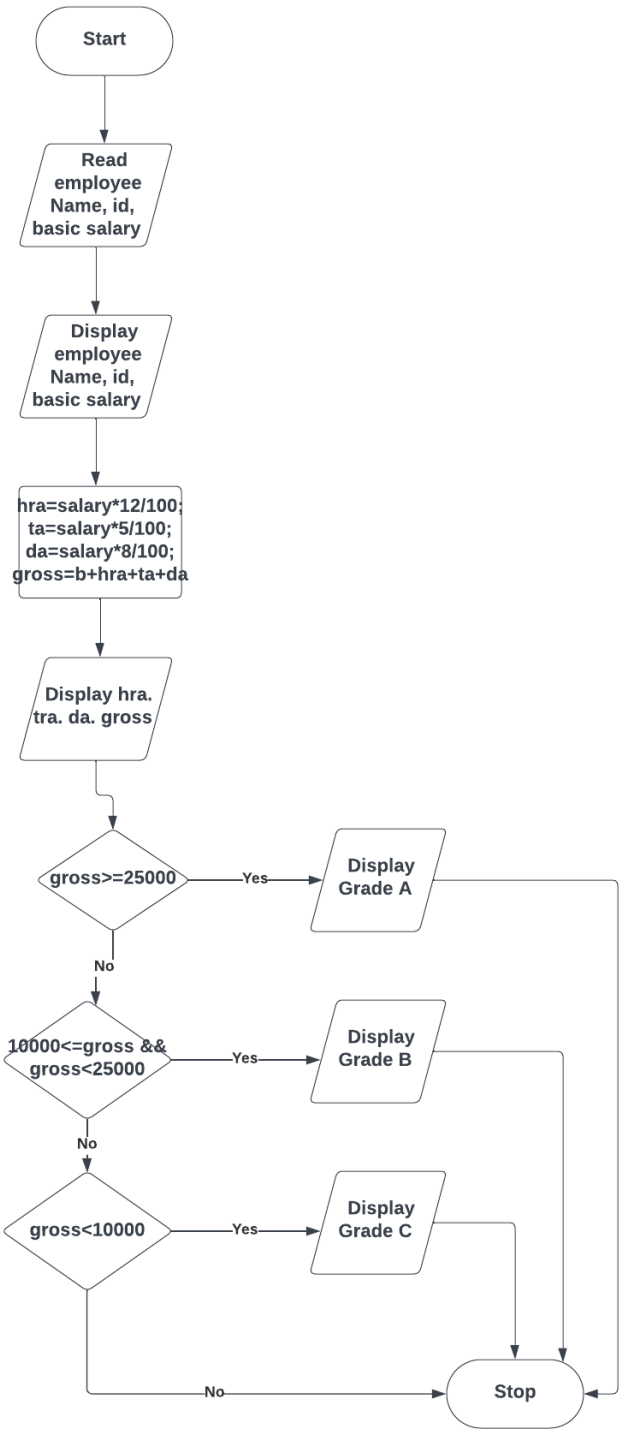
7.1: Display 3rd Class and goto step 8

8: Stop

c. Java Program to print student details



9. a.Flowchart to print employee details



b. Algorithm to print Employee details

Step 1: Start

2: Read Employee Name, id, basic salary b

3: Display Student Name, id, basic salary b

4: Calculate hra=b*12/100; ta=b*5/100; da=8*b/100; gross= hra+ta+da+b

5: Display hra, ta, da, gross

6: if gross>=25000

6.1: Display Grade A and goto step 9

7: else if 10000<=gross<25000

7.1: Display Grade B and goto step 9

8: else if gross<10000

8.1: Display Grade C and goto step 9

9: Stop

c. Java Program to print Employee details