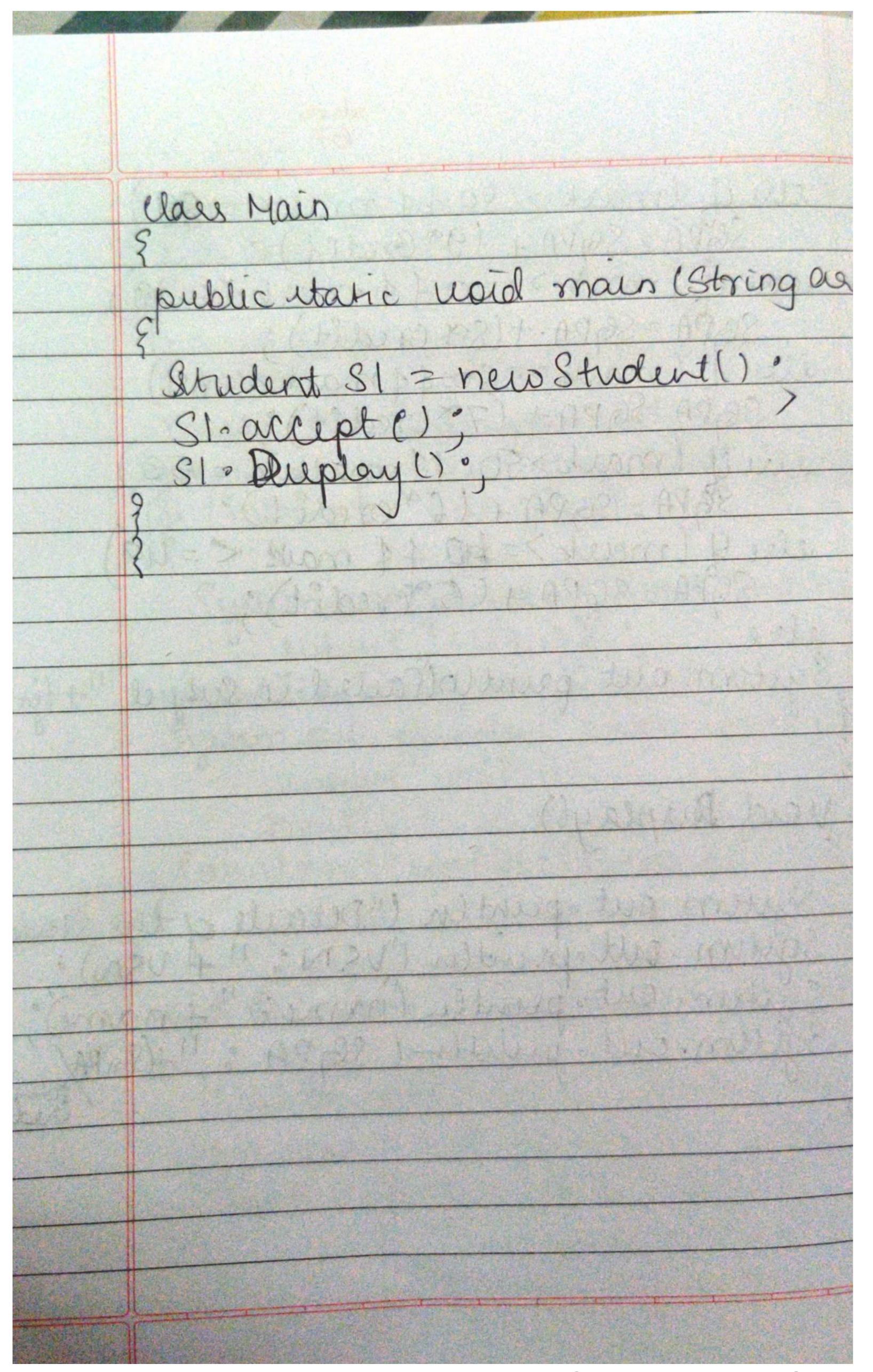Lab 2

~~import java.~~

Q) Develop a java program to create a class Student with members USN, name, an array credits and an array marks. Include methods to accept and display details and a method to calculate SGPA of the student

Program :

```
import java.util*;
class Student;
{
    private string USN, name;
    private int n;
    private double SGPA = 0;
    private int total Credits = 0;
    private int credits[];
    private int marks[];
    Scanner in = new Scanner (System.in);
    void accept ()
    {
        System.out.println ("Enter USN of Student
        USN = in.nextLine();
```

```
System.out.println ("Enter name of the Stude
Scanner name = in.nextline ();
System.out.println ("Enter no of subjects")
n = in.nextline ();
credits = new int [n];
marks = new double [n];
System.out.println ("Enter details of subj
for (int i = 0; i<n; i++)
{
        System.out.println ("Enter credits for
            subject "+(i+1)#);
        credits[i] = in.nextInt ();
        System.out.println (" Enter marks for
            subject" +(i+1));
        marks [i] = in. nextInt ();
        Calculate (credits [i], marks[i], i)
    }
}

void Calculate (int credit, double mark
{
    total Credits = total Credits + credit;
    if (marks >= 90 && marks <= 100)
        SGPA = SGPA + (10* credits);
```

```java
else if (mark >= 80 && mark <= 89)
    SGPA = SGPA + (9*Credit);
else if (mark >= 70 && mark <= 79)
    SGPA = SGPA + (8*credit);
else if (mark >= 60 && mark <= 69)
    SGPA = SGPA + (7*credit);
else if (mark > 50 && mark <= 59)
    SGPA = SGPA + (6*credit);
else if (mark >= 40 && mark <= 49)
    SGPA = SGPA + (5*credit);
else
System.out.println("Failed in subject "+(j+1))
}
}
}

void Display()
{
System.out.println("Details of the Student")
System.out.println("USN: " + USN);
System.out.println("name: " + name);
System.out.println("SGPA: "+(SGPA/total credit)
}
}
```

```
class Main
{
    public static void main (String ar
    {
        Student S1 = new Student();
        S1.accept();
        S1.Duplay();
    }
}
```