PROGRAM - 2

29/12/23 WAP TO CALCULATE SGPA

```
import java.util.Scanner

Public class Student {
  String usn;
  String name;
  int i=0;
  private static int[] credit = {4,4,3,3,3,1,1,1};
Scanner in = new Scanner (System.in);
public void first () {
   System.out.print ("Enter your usn : ");
   usn = in.next ();
   System.out.print ("Enter your name : ");
   name = in.next ();
}
public double res (int[] arr) {
   double marks=0, sgpa=0;
   int i;
   for(i=0; i<arr.length; i++) {
      if (arr[i]>=100 {
          arr[i] = arr[i] - 10;
      }
   marks += (credit[i] * (int) arr[i]/10 + 1));
  }
   Sgpa = marks / 20;
     return sgpa;
}
public void display (double result) {
     System.out.println ("SGPA : " + result);
}
}
```

DATE: / /
PAGE NO: Usha Gold

## Algorithm

Step 1: Start
Step 2: Initialize the variables usn, marks, name, sgpa
Step 3: Calling class student in which calling function first();
Step 4: Input: "Enter Usn" + usn
Step 5: Input: "Enter name" + name
Step 6: print "Enter marks"
Step 7: for (i=0; i<8; i++) {
arr[i] = in.nextInt();
}
Step 8: Read array credits as {4,4,3,3,3,1,1,1}
Step 9: for(i=0; i< arr.length ; i++) {
if (arr[i]>=100) {
arr[i] = arr[i] - 10;
}
else if (arr[i] < 40) {
arr[i]=0;
}
marks += (credit[i] * (arr[i]/10) + 1)
}
Step 10: sgpa = marks/20
Step 11: print ("SGPA = " + sgpa
Step 12: Stop

29/12/23