Week-4

Quadratic

```
import java.util.Scanner;
public class main{
public static void main (string args[]) {
scanner sc = new scanner (system.in);
system.out.println("Enter the a,b, c");
double a=sc.nextDouble();
double b=sc.nextDouble();
double c=sc.nextdouble();
double delta =(b*b)-(4*a*c);
double root1, root2;
if (delta>=0)
{
root1 =(-b-math.sqrt(delta)/(2*a);
root2=(-b+math.sqrt(delta))/(2*a);
system.out.println("Two real roots are :"+root+" "+ root(2);
}
else
{
System.out.println("No real roots");
```

classmate

Q2) SGPA

```
import java.util;
class student
{
string usn, name;
string int, credits [];
static double marks [];
void student Input (int n)
{
scanner sc = new scanner (system.in);
system.out.println ("Enter usn and name");
usn = sc.nextline ();
name = sc.nextline ();
system.out.println ("Enter marks along with credits ");
for (int i=0; i<n; i++)
{
marks [i] = sc.next double ();
credits (i) = sc.nent Int ();
System.out.println ();
}
}
double caluclate (int n)
{
int c, creed = 0;
double tot, total = 0.0;
```

classmate

```
for(int i=0; i<n; i++)
{
  tot = marks[i];
  if(tot >=90)
   c=10;
  else if(total >=80)
   c=9;
  else if(tot >=70)
   c=8;
  else if(tot >=60)
   c=7;
  else if(tot >=50)
  c=6;
  else if(tot >=40)
   c=4;
  else
   c=0;
  total = total+((c* credits[i]));
  cred = cred+ credits[i];
}
 total =total / cred;
 return(total);
}
void student display (int n, double total) {
System.out.println("name of students : "+name);
```

classmate

```
System.out.println("usn of students : "+usn);
System.out.println("marks of student along with credits of
                    courses");
for(int i=0; i<n; i++)
{
 system.out.println(marks[i]+" "+credits[i]);
}
 System.out.println("sgpa of students : "+total);
}}
 public static void main(string args[])
{
 Scanner sc = new Scanner(system.in);
 student obj = new student();
 System.out.println("enter no of course");
  int n = sc.nextInt();
  credits = new int[n];
  mark = new double[n];
  obj.studentInput(n);
 double total = obj.Caluclate(n);
 obj.studentDisplay(n, total);
}
}
```

classmate