

```

import java.util.*;
class Roots{
public static void main(String args[]){
double a,b,c,d,x1,x2;
Scanner in = new Scanner(System.in);
System.out.println("Enter the coefficients of x^2, x, and constant term");
a=in.nextDouble();
b=in.nextDouble();
c=in.nextDouble();
d=b*b-4*a*c;
if(d>0){
x1=(-b+Math.sqrt(d))/2*a;
x2=(-b-Math.sqrt(d))/2*a;
System.out.println("Roots are real and distinct");
System.out.println("Roots are "+x1+" and "+x2);
}
else if(d==0){
x1=x2=-b/2*a;
System.out.println("Roots are real and equal");
System.out.println("Roots are "+x1+" and "+x2);
}
Else if(d<0){
System.out.println("There are no real solutions");
}
}
}

```

```
C:\Users\Lenovo\Desktop\ja>javac Roots.java
```

```
C:\Users\Lenovo\Desktop\ja>java Roots
```

```
Enter the coefficients of  $x^2$ ,  $x$ , and constant term
```

```
1 2 1
```

```
Roots are real and equal
```

```
Roots are -1.0 and -1.0
```

```
C:\Users\Lenovo\Desktop\ja>java Roots
```

```
Enter the coefficients of  $x^2$ ,  $x$ , and constant term
```

```
1 -2 1
```

```
Roots are real and equal
```

```
Roots are 1.0 and 1.0
```

```
C:\Users\Lenovo\Desktop\ja>
```

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```

class student
{
String usn,name;
static int credits[];
static double marks[];
void 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.nextDouble();
credits[i]=sc.nextInt();
System.out.println();
}
}
double calculate(int n)
{
int c,cred=0;
double tot,total=0.0;
for(int i=0;i<n;i++)
{
tot=marks[i];
if(tot>=90)
c=10;
else if(tot>=80)
c=9;

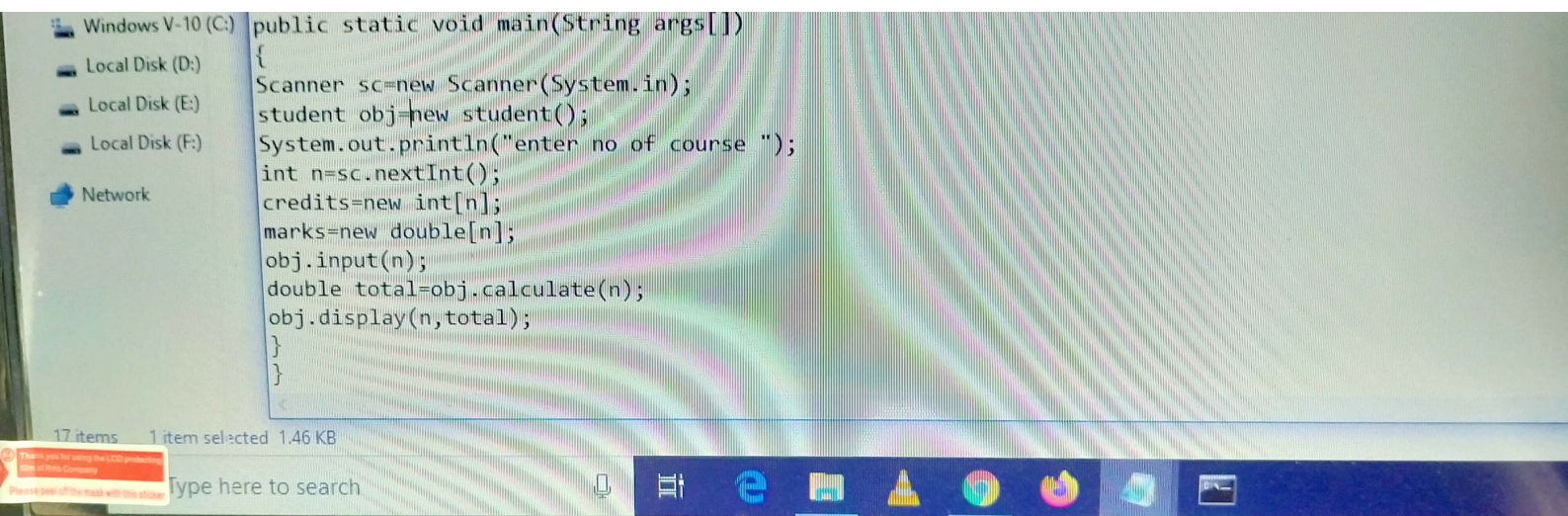
```



```
student - Notepad
File Edit Format View Help
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 display(int n,double total)
{
System.out.println("name of student : "+name);
System.out.println("usn of student : "+usn);
System.out.println("marks of student along with credits of course");
for(int i=0;i<n;i++)
{
System.out.println(marks[i]+" "+credits[i]);
}
System.out.println("sgpa of student : "+total);
}
// static void main(String args[])
Scanner sc=new Scanner(System.in);
```



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```
C:\Windows\system32\cmd.exe
C:\Users\Lenovo\Desktop\ja>javac student.java
C:\Users\Lenovo\Desktop\ja>java student
enter no of course
5
enter usn and name
123 a
a
enter marks along with credits
90 4
90 4
90 3
97 5
93 4
name of student : a
usn of student : 123 a
marks of student along with credits of course
90.0 4
90.0 4
90.0 3
97.0 5
93.0 4
Avgpa of student : 10.0
C:\Users\Lenovo\Desktop\ja>
```