[1.Develop a Java program that prints all real solutions to the quadratic equation ax2+bx+c=0. Read in a, b, c and use the quadratic formula. If the discriminate b2 -4ac is negative, display a message stating that there are no real solutions.

```
import java.math.*;
class solution{
double a,b,c;
 solution(double i,double j,double k){
 } void sol(){
x1,x2; if(D<0){ x1=-b/2*a;
x2=(D/2*a);
     System.out.println("IMAGINARY ROOT ARE"+"
+x1++i+i+(+x2+i)++AND+x1++-i+(+x2+i)++(n);
   else if(D==0){
     x1=x2=(-b/2*a);
     System.out.println("THE SOLUTION ARE REAL AND EQUAL"+" "+x1+"
+x2+"n");
     x1=(-b+Math.sqrt(D))/2*a;
                                x2=(-b-Math.sqrt(D))/2*a;
     System.out.println("THE SOLUTIONS ARE"+" "+x1+" "+x2+"\n");
class week1{
 solution(1,2,-3);
              solution s2=new solution(1,2,1);
solution s3=new solution(1,1,1); s1.sol();
```

```
THE SOLUTIONS ARE 1.0 -3.0

THE SOLUTION ARE REAL AND EQUAL -1.0 -1.0

IMAGINARY ROOT ARE -0.5+i(-1.5) AND -0.5-i(-1.5)

Process finished with exit code 0
```