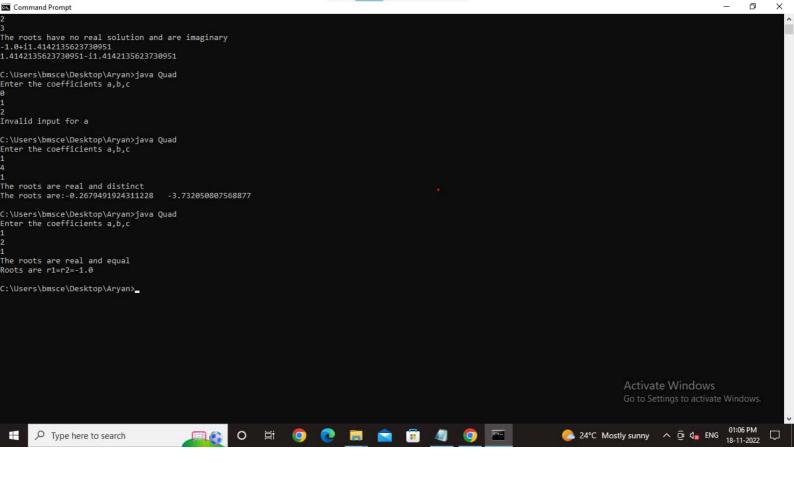
## Quadrotic Equation

```
import java - math - *;
import java util Scannor;
class Quad
      public static void main (String arr (3)
            Scanner s = new Scanner (System-in);
             System out pointln (" Inter the coefficients a, b, c: ");
              double a= s. next rable();
              double b = s. nextelouble();
             dauble c = s. nat Double ();
              double dy rest, rest;
            d= b*b-4*a*C;

y(a==0) & System out println ('Invalid input for a'); 3 else &

y(d>0) System out println ('Invalid input for a'); 3 else &
                      Example System out println ("The roots are real and distinct :);
                        resl= -b+ (noth grt (a)) / (2 x a);
                       res2 = -b - (mom. sqrt(d))/(2*a);
                      System. out-pointly ("The roots ere: "+ res/;" + res/);
         else y (d== 6)
                     System out - pointly ("Roots are real and equal");
                       res1 = res2 = - b/(2*0),
                 3 System.out. println ("Roots are 1=12="+ resl);
          lee & ol= -b/(2*a); r2= (math sprt (math.cbs (d)))/(2*9);
              $ & System. out-println ("No Real Solutions"); }
                   System. out- println ( +1+ "+i"+ +2 +"\n"+ +2 +(-i"+ri);
```

Output
1 1 1 1
1 Enter the coefficients o, b, C  2
3
Invalid anput for a
21 Finter the coefficients 9, b, c
2
The roots are real and equal  Roots are $r =r^2=1.0$
37 Enter the conflicionts 9, bsc
5
The roots are real and Justine -4-7912878474
A) Forty the coefficients 0, b, c  2 3
The scoots have no real solution and are emagerousy 1.4142135623730951



ďΧ