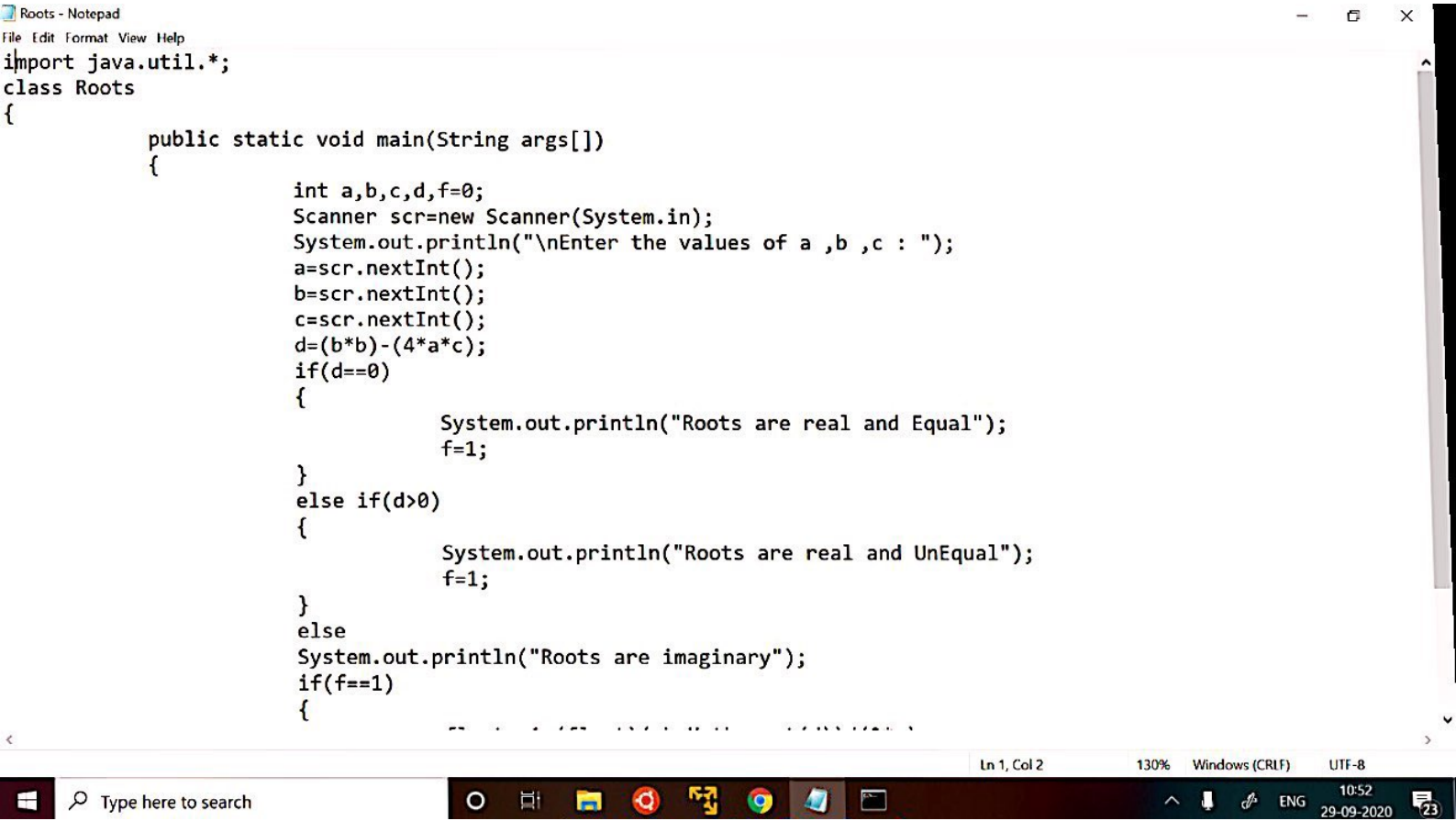

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Roots - Notepad

File Edit Format View Help

```
                Scanner scr=new Scanner(System.in);
                System.out.println("\nEnter the values of a ,b ,c : ");
                a=scr.nextInt();
                b=scr.nextInt();
                c=scr.nextInt();
                d=(b*b)-(4*a*c);
                if(d==0)
                {
                        System.out.println("Roots are real and Equal");
                        f=1;
                }
                else if(d>0)
                {
                        System.out.println("Roots are real and UnEqual");
                        f=1;
                }
                else
                System.out.println("Roots are imaginary");
                if(f==1)
                {
                        float r1=(float)(-b+Math.sqrt(d))/(2*a);
                        float r2=(float)(-b-Math.sqrt(d))/(2*a);
                        System.out.printf("Roots are : %.4f and %.4f",r1,r2);
                }
        }
}
```

Ln 32, Col 2 130% Windows (CRLF) UTF-8

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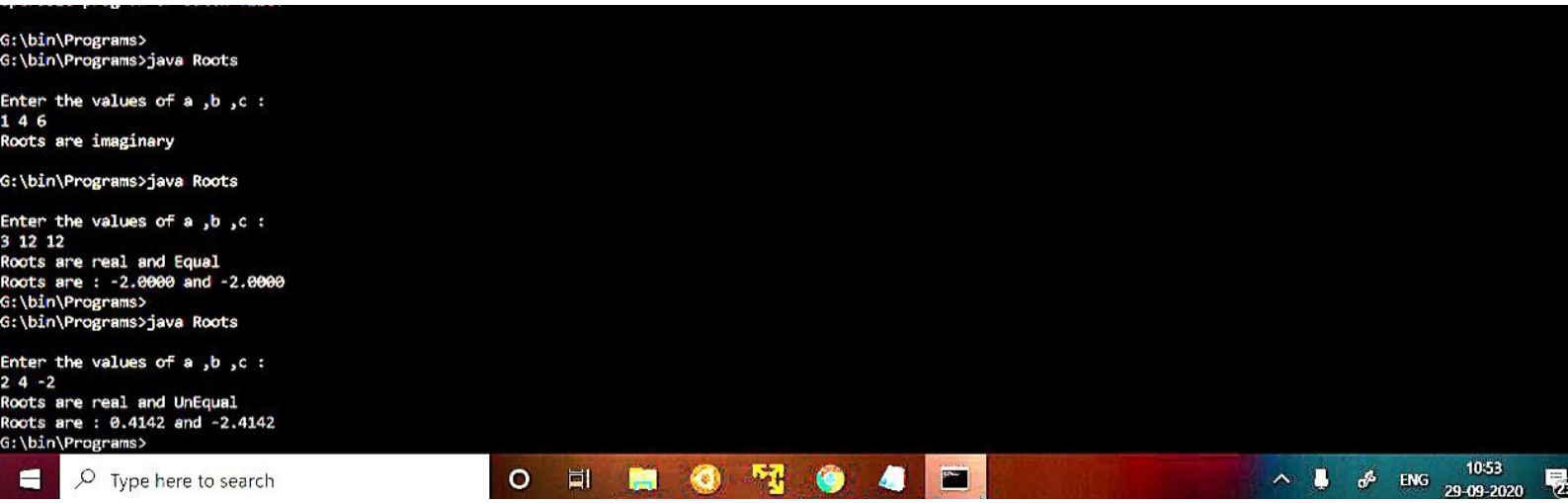

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QUADRATIC EQUATION

```
import java.util.*;
class Roots
{
  public static void main (String args[])
  {
    int a,b,c,d,f=0;
    Scanner sc = new Scanner (System.in);
    System.out.print("Enter the values ");
    a=sc.nextInt();
    b=sc.nextInt();
    c=sc.nextInt();
    d=(b*b)-(4*a*c);
    if(d==0)
    {
      System.out.println("Roots are real and
      Equal"); f=1;
    }
  else if(d>0)
    {
      System.out.println("Roots are real and
      unequal");
      f=1;
    }
  else
    {
      System.out.print("Roots are imaginary");
    }
  else if((f==1)
    {
      float r1=(float)(-b+Math.sqrt(d))/
               (2*a);
      float r2=(float)(-b-Math.sqrt(d))/
               (2*a);
      System.out.printf("Roots are : %.4f
      and %.4f", r1, r2);
    }
}
```

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OUTPUT

Enter the values
1 4 6
Roots are imaginary.

Enter the values
3.12.12
Roots are real and equal
Roots are : -2.0, -2.0.

Enter the values
2 4 -2
Roots are real and unequal
Roots are : 0.4142, -2.4142.

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