

C:\Users\SAI RAMAKRISHNA\Desktop\pro.java - Notepad++ (Administrator)

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program.java pro.java

```

1  import java.util.Scanner;
2  class pro
3  {
4      public static void main(String args[])
5      {
6          int a,b,c,d,f=0;
          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.println("Roots are :   "+r1+" , "+r2);
          }
      }
  }

```

```
C:\Users\SAI RAMAKRISHNA\Desktop>javac pro.java
```

```
C:\Users\SAI RAMAKRISHNA\Desktop>java pro
```

```
Enter the values of a ,b ,c :
```

```
1 5 6
```

```
Roots are real and Unequal
```

```
Roots are : -2.0 , -3.0
```

```
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```

```
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```

```
Enter the values of a ,b ,c :
```

```
2 2 2
```

```
Roots are imaginary
```

```
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```

```
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```

```
Enter the values of a ,b ,c :
```

```
1 4 4
```

```
Roots are real and Equal
```

```
Roots are : -2.0 , -2.0
```

```
C:\Users\SAI RAMAKRISHNA\Desktop>
```