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**ROLL NO:03**

**CLASS:D7A**

**Java code:**

**import java.util.\*;**

**class Rootsofquad**

**{**

**public static void main(String args[])**

**{**

**double a,b,c,d,i,j,k,m;**

**Scanner n=new Scanner(System.in);**

**System.out.println("enter the coeficients of quadratic equation: ");**

**a=n.nextDouble();**

**b=n.nextDouble();**

**c=n.nextDouble();**

**if(a==0)**

**{**

**if(b==0) System.out.println("Invalid data");**

**else System.out.println("Root is "+(-c/b));**

**}**

**else {**

**d=b\*b-4\*a\*c;**

**if(d==0)**

**{ i=-b/2\*a;**

**System.out.println(i);**

**}**

**else if(d>0)**

**{ d=Math.sqrt(d);**

**i=((-b/2\*a)+(d/2\*a));**

**j=((-b/2\*a)-(d/2\*a));**

**System.out.println("Roots Are Real And Unequal");**

**System.out.println("Roots are "+i+" "+j);**

**}**

**else {d=Math.sqrt(-d);**

**i=(-b/2\*a);**

**j=(d/2\*a);**

**k=(-b/2\*a);**

**m=(d/2\*a);**

**System.out.println("Roots Are Imagionary");**

**System.out.println("Roots are "+i+"+i"+j+" "+k+"-i"+m);**

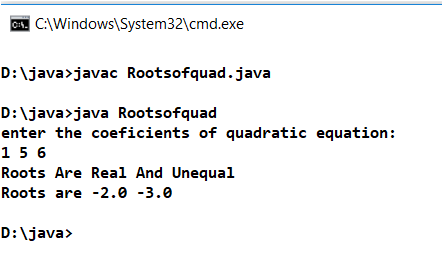
**}**

**}**

**}**

**}**

**Output:**

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