**PROGRAM 1:**

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

**class** prog1

{

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

{

**int** a,b,c,d,f=0;

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

System.***out***.println("\nEnter the values of a,b,c:");

a=scan.nextInt();

b=scan.nextInt();

c=scan.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);

}

}

}

**OUTPUT:**

