Lab : 1

①

```
import java.util.Scanner;
class roots
{
  public static void main(String args[])
  {
    int a,b,c;
    float d;
    double x1,x2;
    Scanner input = new Scanner(System.in);
    System.out.println("Enter the coefficient of x^2");
    a = input.nextInt();
    System.out.println("Enter the coefficient of x");
    b = input.nextInt();
    System.out.println("Enter the constant");
    c = input.nextInt();
    d = ((b*b)-(4*a*c));
    x1 = ((-b+Math.sqrt(d))/2);
    x2 = ((-b-Math.sqrt(d))/2);
    if(d>0)
    {
      System.out.println("Roots are real and dis
```

```
        System.out.println("Roots are "+x1+" and "+x2);
    }
    else if(d==0)
    {
        System.out.println("Roots are real and equal");
        System.out.println("Roots are "+x1+" and "+x2);
    }
    else
    {
        System.out.println("These are no real roots");
    }
}
}
```