QUADRATIC EQUATION:

```
import java.util.Scanner;
class Quad_Eq_cal{
  public static void main(String [] args){
    int y=0;
    Scanner sc=new Scanner(System.in);
    System.out.println("General form of a quadratic equation is ax^2+bx+c=0");
    do{
      System.out.print("\nEnter value of a=");
      int a=sc.nextInt();
      System.out.print("Enter value of b=");
      int b=sc.nextInt();
      System.out.print("Enter value of c=");
      int c=sc.nextInt();
      float d=(float)(Math.pow(b,2)-4*a*c);
      if(d<0){
         System.out.println("There are no real solutions");
      }
      else if(d==0){
         System.out.println("It has one repeated root(2 equal roots):");
         float r=-b/(2.0f*a);
         System.out.println("x="+r);
      }
      else{
         System.out.println("It has two distinct roots:");
         double r1=((-b+Math.sqrt(d))/(2*a));
         System.out.println("x1="+r1);
         double r2=((-b-Math.sqrt(d))/(2*a));
         System.out.println("x2="+r2);
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System.out.println("\nDo you want to calculate again?(yes=0 and no=1): ");
    y=sc.nextInt();
}while(y==0);
}
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