

```
public class sol{

    public static double solveeqn(double x, double tolerance )
    {
        boolean run = true;
        while(run == true)
        {
            System.out.println("****");
            double y = Math.cbrt(1+x);
            double dist = Math.abs(x-y);
            if(dist < tolerance)
            {
                return y;
            }
            else{
                x = y;
            }
        }
        return 0;
    }

    public static void main(String args[] ){

        double b = 0.5;
        double a = solveeqn(b, .0001);

        System.out.println("Solution is " + a);
    }

}
```