Section 1 – Exercise

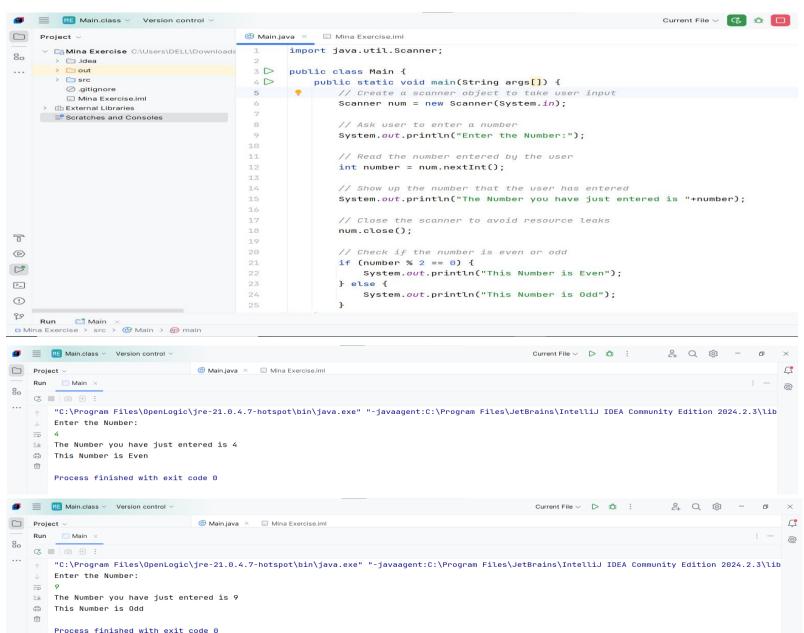
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Level: 2

Data: 16/10/2024

1. Demonstrate the method by calling it in a program that ask the user to enter number and output if the number is odd or even.



2. Demonstrate the method by calling it in a program that ask the user to enter a, b, c and print the roots of quadratic equation by using this formula:

 $x=rac{-b\pm\sqrt{b^2-4ac}}{2a}$

```
MC Main.class ~
                      Version control ~
                                 Project ~
                   Main.java
                           import java.util.Scanner;
                     1

∨ □ Mina Exerci:

                     2 >
       > idea
                           public class Equation {
       > 🗀 out
                     3

√ □ src

                     4 >
                                public static void main(String[] args) {
           @ Equation
                     5
                                    // Create a scanner object to take input
           (C) Main
                                    Scanner num = new Scanner(System.in);
         o.gitignore
         Mina Exer
                                    // Ask the user to input the coefficients \alpha, \beta, and \beta
     System.out.print("Enter the coefficient a: ");
       Scratches an
                    10
                                    double a = num.nextDouble();
                    11
                                    System.out.print("Enter the coefficient b: ");
                    12
                    13
                                    double b = num.nextDouble();
                    14
                    15
                                    System.out.print("Enter the coefficient c: ");
                                    double c = num.nextDouble();
                    16
                    17
                                    if (a == 0) {
                    19
                                        System.out.println("The value of 'a' must be greater than zero");
                                        // Call the method to calculate and print the roots
findRoots(a, b, c);
>_
                                    // Close the scanner
                    24
(!)
                    25
                                    num.close();
□ Mina Exercise > src > 🕝 Equation > 🔊 main
          Main
                                  if (a == 0) {
        .gitignore
        Mina Exer
                                      System.out.println("The value of 'a' must be greater than zero");
    > fill External Libra
                                  } else {
      Scratches an
                                      // Call the method to calculate and print the roots
                                      findRoots(a, b, c);
                                  // Close the scanner
                   24
                                  num.close();
                   28
                              // Method to find the roots
                   29
                              public static void findRoots(double a, double b, double c) { 1 usage
                                  double x = b * b - 4 * a * c;
                   30
                   31
                   32
                          }
                   33
```