CSE 115L: Programming Language I Lab (Section: 06)

Spring 2020

Assignment - 02

Tasks:

1. Write a program that will prompt the user to enter two real numbers, then you need to subtract the smaller number from the greater one and show the result.

input	output
Enter two real numbers: 45.50 98.01	98.01 - 45.50 = 52.51

2. Write a program that determines if a number is even or odd (use switch-case)

3. Write a program that determines if a quadratic equation has real roots. (use if-else)

Quadratic equation: $ax^2 + bx + c = 0$

Discriminant: $b^2 - 4ac$

- If discriminant is equal to 0 then the equation has one real solution.
- If discriminant > 0, then the equation has two real solutions.
- If discriminant < 0, then the equation has two imaginary solutions.

Sample input	Sample output
Enter a, b and c where a*x*x + b*x + c = 0 1 4 7	No real roots
Enter a, b and c where a*x*x + b*x + c = 0 1 2 1	Real roots
Enter a, b and c where a*x*x + b*x + c = 0 1 5 6	Real roots