



CSE 215L: Programming language II Lab
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Sec: 02
Lab - 02 [Control Statements], Spring-2021
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Objective:

- To learn to use Conditional Statements
- To learn about different types of loops (for, while, do-while)
- To learn about two keywords such as break, continue, and their usages

<i>if-else</i>	<i>switch</i>
<pre>if(condition){ // do something } else{ // do something else }</pre>	<pre>switch(case) { case 1: // do things for case 1 break; case 2: // do things for case 2 break; default: // do things for default case }</pre>
<i>for</i>	<i>while</i>
<pre>for(int i = 0; i < 10; i++){ // do something }</pre>	<pre>while(condition){ // do something }</pre>

Tasks:

1. Write a program that will read N numbers using a **while-loop** and will display their sum. N will be input to your program.
2. Write a program that takes an arithmetic operator ('+', '-', '*' or '/') and two operands as input and performs the corresponding arithmetic operation on the operands. You must use a **switch-case** to solve the problem.

Enter operator: +
Enter 1st Operand: 23
Enter 2nd Operand: 12
Result is : 35

Enter operator: /
Enter 1st Operand: 12
Enter 2nd Operand: 6
Result is : 2

3. Write a program that prints the following pattern.

```
*  
+++  
*****  
+++++++  
*****
```

4. Write a program to find the roots of a quadratic equation.

For $ax^2 + bx + c = 0$, the values of x which are the solutions of the equation are given by :

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

Input

Enter the coefficients:
a: 2
b: -4
c: -3

Output

Root 1 : 2.58
Root 2 : -0.58
