Assignment 1:

(1) Write a program that take two integers from the user and print the results of this equation:

Result =
$$((num1 + num2) * 3) - 10$$

- (2) Write a program that print your name and your grade in a new line.
- (3) Write a program for converting temperature from degrees Celsius to degrees Fahrenheit, given the formula:

$$F = C \times \frac{9}{5} + 32$$

- **(4)** Write a program that reads the radius of a circle and calculates the area and circumference then prints the results.
- (5) Write a program to print the ASCII value of a character input by the user.
- **(6)** Write a program that print the relation between two integer number if those numbers are equal, not equal and which one contain the higher value.

- (7) Write a program that takes three integers, and prints out the smallest number.
- (8) Write a program that reads a positive integer and checks if it is a perfect square.
- (9) Write a program that reads a student grade percentage and prints "Excellent" if his grade is greater than or equal 85, "Very Good" for 75 or greater; "Good" for 65, "Pass" for 50, "Fail" for less than 50.
- (10) Write a program to make a simple calculator using switch-case. The calculator takes the operation (+ or or * or /) and takes the two input arguments and print the results.
- (11) Print sum of first 100 integers. (With data validation)
- (12) Write a program that reads a positive integer and computes the factorial.
- (13) Write a program that reads a positive integer and checks if it is a prime.

(14) Write a program to display English alphabets from A to Z. (15) Write a program to calculate the power of a number. The number and its power are input from user. (16) Write a program to reverse a number. (17) Write a program to count number of digits in a decimal number. (18) Write a program to display half pyramid using stars pattern. (19) Write a program to display inverted half pyramid using stars pattern.

(20) Write a program to display a full pyramid using stars pattern.

(21) Write a program to display cross or X-shape using stars pattern.

