Week 1 Lab

Dhaka University of Engineering & Technology, Gazipur Computer Science and Engineering Department CSE 1122 (Structured Programming Language Sessional)

These Programs illustrates on Operators and I/O statements in C Language.

- 1. Write a program to convert a temperature in degrees Fahrenheit to degrees Celsius.
- 2. Write a program to find the area and display it of
 - i. a circle given its radius.
 - ii. A triangle given its three sides
 - iii. A rectangle given its length and breadth.
- 3. Write a program that converts meter-type height into [feet (integer), inch(float)]-type height.
- **4.** Your program should get one float typed height value as a keyboard input and prints integer typed feet value and the rest of the height is represented as inch type. (1m=3.2808ft=39.37inch)
- 5. Write a program that takes hours and minutes as input, and then outputs the total number of minutes. (1 hour 30 minutes = 90 minutes).
- 6. Write a program to read a number from the user and check whether the number is EVEN or ODD using conditional operator (?:)
- 7. Write a program that will read the value of x and evaluate the following function using conditional operator (?:)

$$y=1$$
 for $x > 0$
0 for $x = 0$
-1 for $x < 0$

- **8.** write a program that will take an ASCII value from user and output the corresponding character & vice versa.
- **9.** Write a program to read a character from the user and for each input character print a message to say the whether the character is a vowel, a consonant, a digit or neither.
- 10. Write a program
 - i. to swap two numbers using temporary variable
 - ii. to swap two numbers without using temporary variable