Dhaka University of Engineering & Technology, Gazipur

Department of Computer Science and Engineering

CSE 1122 (Structured and Object Oriented Programming Language Sessional)

These Programs illustrate some basic practice problems on ***Operators, if-else*** statements and basics of ***Loop*** in C Language.

1. Write a program to convert a temperature in degrees Fahrenheit to degrees Celsius.

2. Write a program that converts **meter-type height** into **[feet (integer), inch (float)]- type height**.
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)

3. Write a program to read a number from the user and check whether the number is EVEN or ODD using conditional operator **(? :)**

4. 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

5. 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.

6. Write a C program which will find the largest number from the three numbers given by the user.

7. The factorial of an integer **n**, written **n!**, is the product of the consecutive integers 1 through **n**. For example, factorial of 5 is calculated as 5! = 5 * 4 * 3 * 2 * 1 = 120

Write a program to generate and print a table of the first 10 factorials. **(Use only conditional statements: No Loop !!!).**

8. Write a program that prints the quadrant number of a point (x,y) on a plane.

Recall that points in quadrant 1 have positive x and y values, points in quadrant 2 have a negative x value and a positive y value, points in quadrant 3 have negative x and y values, and the remaining points are in the quadrant 4. If a point is on an axis, choose the quadrant with the lower quadrant number.

9. Write a C program to input a number from the user and print it into words using a for loop.

Input

Input number: **1234**

Output

One Two Three Four

10. Write a C program to calculate the summation of the following series for a user input, **n**:

4 – 4/3 + 4/5 – 4/7+…….. n^{th} term .

Input (n)	Output
20	3.091624
105	3.151116
