EAST WEST UNIVERSITY
Department of Computer Science & Engineering

Course Instructor: Md. Asif Khan Rifat Lab: 02
Course: CSE103 (Structured Programming)

Topics Today

1. Simple if statement
2. if. . . else and if. . . else. . . if statement
3. Nested if. . . else statement

Problem 1

Write a C program to find minimum between two numbers.

Problem 2

Write a C program to check whether a number is negative, positive or zero.

Problem 3

Write a C program to input any alphabet and check whether it is vowel or consonant.

Problem 4

Write a C program to find maximum between three numbers.

Problem 5

Write a C program to input marks of five subjects Physics, Chemistry, Biology, Mathematics and Computer. Calculate average marks and then grade according to following:
Marks >= 90 : Grade A
Marks >=80 : Grade B

Marks >=70 : Grade C
Marks >=60 : Grade D
Marks >=50 : Grade E
Marks <40 : Grade F

Problem 6

Write a C program to convert specified days into years, weeks and days. Note: Ignore leap year. Test Data : Number of days : 1329 Expected Output : Years: 3 Weeks: 33 Days: 3

Sample Input	Sample Output
Number of days : 1329	Years: 3 Weeks: 33 Days: 3

Problem 7

Write a C program to accept a coordinate point in an XY coordinate system and determine in which quadrant the coordinate point lies.

Sample Input	Sample Output
Test Data : 7 9	The coordinate point (7,9) lies in the First quadrant.

Problem 8

In this problem you will develop a calculator which can do Addition, Subtraction, Multiplication, Division and Modulo (Remainder). Use switch-case statements.

Sample Input	**Sample Output**
4 + 7	11
7 % 3	1

Problem 9

Write a program that takes an integer input representing a student's score. If the score is 40 or above, print "Pass"; otherwise, print "Fail". Use the ternary operator.

Sample Input	**Sample Output**
39	Fail
72	Pass