

**Noakhali Science and Technology University**  
**Course Title: Structured Programming Language Lab**  
**Course Code: CSTE-1202**

**LAB-2: Decision Making & Branching**

1. Write a program to determine whether a given number is “odd” or “even” and print the message “NUMBER IS ODD” or “NUMBER IS EVEN”.
2. Write a program which will read a number from the keyboard and display whether it is positive or negative or zero.
3. Any year is input through the keyboard. Write a program to determine whether the given year is leap year or not. Use both nested if / if...else if...else statement.
4. Write a program to select and print the largest/smallest of the three numbers using simple if / nested if / if...else if...else statement.
5. Let us consider an example of grading rules of the students in an academic institution as follows:

Average Marks	Grade
80 to 100	A+
70 to 79	A
60 to 69	B+
50 to 59	B
40 to 49	C
Bellow 40	F

Write a program to find out the grading of the student based on the given average marks using if...else if...else / switch statement.

6. Write a program to read three integer values from the keyboard and displays the output stating that they are the sides of right-angled triangle.