

## ASSIGNMENT 01

### Question 01

Design a results forum for a school. When teacher enter the marks of a student. The program should be able to display the grade and PASS or FAIL

Grading Criterion:

00<marks<30, Grade D-  
30<=mark<35, Grade D  
35<=mark<40. Grade D+  
40<=mark<45, Grade C  
45<=mark<50, Grade C  
50<=mark<55, Grade C+  
55<=mark<60, Grade B 60<=mark<65, Grade B  
65<=mark<75, Grade B+  
75<=mark<80, Grade A  
80<=mark<90, Grade A  
90<=mark<=100, Grade A+

-Pass Mark is 45 -If the Mark is not in the range of 0 to 100, display "ERROR! Please enter a numerical value between 0 to 100".

Example: when Mark=64, your program should display "Student is PASS, Grade B"

### Question 02

Write a program to calculate and print the addition matrix of any two matrices (Size 4x4) input by the user.

### Question 03

Write a program to Calculate the Electricity Bill of a House, when user inputs the amount of Units consumed in a particular month.

Charging Criterion:

Tariff Block(Units)	Unit Rate(Rs.)
0<units<30	5/-
30<=units<60	20/-
60<=units<120	150/-
120<units<200	500/-
units>=200	1000/-

Example: If the amount of units consumed is 55, Charge = (29x5) + (25x20) =645/-

#### Question 04

Develop a calculator for a desired operation between two numbers.

Conditions:

- User chooses the operation He/ She wants.
- And the calculator should run repeatedly till the user wants to quit.
- if user enter, "exit" your program should terminate.

Example: **If user enter, 4+2, your program should print 6**

#### Question 05

Write a program to input (by user) a number between 1 and 15 and print the Multiplication Tables as Follows.

Input a Number (1-15): 7

Multiplication Table of 7

1 x 7 = 7  
2 x 7 = 14  
3 x 7 = 21  
...  
12 x 7 = 84