

Course Title: Computer Fundamental Lab

Course Code: SE 112

Semester: Spring 2022

Programming Problems:

1. Write a C program that takes three numbers as input and print the largest of the three numbers using **nested if.....else** statements.
2. An electric power distribution company charges its domestic consumers as follows:

Consumption units	Rate of charge
0 – 200	Taka 0.50 per unit
201 – 400	Taka 100 plus 0.45 per unit excess of 200
401 – 600	Taka 270 plus 0.75 per unit excess of 400
601 and above	Taka 380 plus 1.20 per unit excess of 600

Write a program that reads the customer number and power consumed and prints the amount to be paid by the customer.

3. Write a program to determine whether a number is 'odd' or 'even' and print the message
NUMBER IS ODD
Or
NUMBER IS EVEN
(a) Without using **else** option, and (b) with **else** option
4. Write a program that takes a number as marks ranging from 0 to 100, obtain by a student in a course and shows the achieved GPA of the student using **else.....if ladder**.

Marks	Grade	Grade Point
80-100%	A +	4
75-79%	A	3.75
70-74%	A-	3.5
65-69%	B+	3.25
60-64%	B	3
55-59%	B-	2.75
50-54%	C+	2.5
45-49%	C	2.25

5. The numbers in the sequence 1 1 2 3 5 8 13 21..... are called Fibonacci numbers. Write a program using **do.....while loop** to calculate and print first m Fibonacci numbers.
6. Given a number (for example 12345), Now write a program using **while loop** to reverse the digits of the number. The output will be (54321 according to example).
7. Write a program using **for loop** to print the "**Powers of 2**" table for the power 0 to 20, both positive and negative.
8. Write a program to print all the prime numbers between 1 and n, where n is the value supplied by user.