

# Khulna University of Engineering & Technology

## Programming Sessional Lab (sheet 2)

1. Write a program that reads days as input and convert days to months and days.
2. Write a program which will take a number as an input and determine the number is negative or positive.
3. Write a program to find out the largest number among three numbers A, B and C.
4. Write a program that reads a year from the keyboard and determine whether it is leap year or not.  
[Hintz: if a year is (divided by 4 and not divided by 100) or only divided by 400 then the year is leap year]
5. Write a program that reads a number from the keyboard and determine whether it is even or odd.
6. Write a program that computes an employee's gross pay and net pay using the formulas-
  - a.  $\text{Gross} = \text{Hours} * \text{Rate}$
  - b.  $\text{Net} = \text{Gross} - \text{Tax}$Tax is subtracted from the gross only if an employee earns more than TK.5000. Otherwise deduct no tax. Tax rate is 5% of gross pay.
7. Write a program which receives the score of a student and display the grade according to the following classification:

<u>Grade</u>	<u>Score</u>
A	80 ..100
B	65 .. 79
C	50 .. 64
D	40 .. 49
F	00...39

8. An electric power distribution company charges its domestic consumers as follows:

<u>Consumption Units</u>	<u>Rate of Charge</u>
0 – 200	Tk. 2.5 per unit
201 – 400	Tk. 100 plus Tk. 3.5 per unit excess of 200
401 – 600	Tk. 250 plus Tk. 4.5 per unit excess of 400
601 and above	Tk. 450 plus Tk. 6.5 per unit excess of 600

The program reads the customer number and power consumed and prints the amount to be paid by the customer.

9. Write a program that reads a character as an input and print the character is alphabet or consonant.
10. Write a program that reads a character from keyboard and then prints it in reverse case is given in. That is, if the input is upper case, the output will be lower case and vice-versa.

[ Hintz: Use ASCII value, A = 65 and Z = 90 ; a = 97 and z = 122]