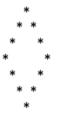# Lab Activities 04
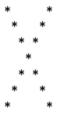
1) Write a program that reads the score of a student in a subject and displays his grade according to the following criteria:

Score	Grade
>= 90	A+
80 – 89	A
70 – 79	B
60 – 69	C
50 – 59	D
< 50	F

2) Write a program that gets the system time and display it on the console with proper format **(13:51:15).**

3) Write and run a program that simulates a simple calculator. It reads two integers and a character. If the character is +, the sum is printed; if it is -, the difference is printed; if it is *, the product is printed; and if it is /, the quotient is to be printed.

4) Input a number (0~8) and print its factorial. If user enters any number other than (0~8), prompt for Re-enter. Maximum tries are 03.

5) Write a program that reads 5 integers and output that how many times repetition occur.

6) Take a number from user and print its table.

7) Print out the empty diamonds of stars. Height will be given as input.

```
    *
   * *
  *   *
 *     *
  *   *
   * *
    *
```

8) Display an X of stars. Height will be given as input.

```
 *       *
  *     *
   *   *
    * *
     *
    * *
   *   *
  *     *
 *       *
```

9) Analyze the following input and output, and then write algorithm of a programthat prints such a pattern given the input.

Input: 5	Input: 3
Output:	Output:
1 1 1 1 1	1 1 1
2 2 2 2 2	2 2 2
3 3 3 3 3	3 3 3
4 4 4 4 4	
5 5 5 5 5	

10) Write program that takes an integer value *N* and to display a table of integers from 1 to *N* and their squares.

```
Enter the Number:5
Number
1
2
3
4
5

Square
1
4
9
16
25
Strike a key when ready . . . _
```