# King Saud University <br> College of Computer \＆Information Science CSC111－Assignment 6 <br> All Sections 

## Question 1

Write a program that prompts the user to enter an integer and displays a pyramid，as shown in the following sample run：

| Enter the number of lines： 5 $\begin{array}{lllllllll}  & & & & & 1 & & & \\ \\ & & & 2 & 1 & 2 & & & \\ & & 2 & 2 & 1 & 2 & 3 & & \\ & 2 & 3 & 2 & 1 & 2 & 3 & 4 & \\ 2 & 4 & 3 & 2 & 1 & 2 & 3 & 4 & 5 \end{array}$ | This is how the spaces look like： <br>  <br> ㅂำ <br>  <br> ㅁำロ4ロロ3ロロ2ロロ1ロロ2ロロ3ロロ4 <br>  |
| :---: | :---: |
| Enter the number of lines： 3 $\begin{array}{lllll}  & & 1 & & \\ & 2 & 1 & 2 & \\ 2 & 2 & 1 & 2 & 3 \end{array}$ | This is how the spaces look like： <br>  <br>  <br>  |

1．There are two spaces between every two digits and before the first digit on the last line（two spaces before digit 5）
2．Each line ends with a digit（no spaces after the last digit）
Name your class Pyramid．

## Question 2

Write a program that breaks a number into its digits. The program keeps prompting the user to enter an integer and displays the digits of that integer until the user enters -1 .

Name your class Digits.
Here is a sample run:

```
Enter a number (-1 to end): 3457 
Digit1 = 7
Digit2 = 5
Digit3 = 4
Digit4 = 3
Enter a number: 23 ↔
Digit1 = 3
Digit2 = 2
Enter a number: 847570 」
Digit1 = 0
Digit2 = 7
Digit3 = 5
Digit4 = 7
Digit5 = 4
Digit6 = 8
Enter a number: -1 
```

