King Saud University College of Computer & Information Science CSC111 – Assignment 6 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 <- 1 2 1 2 1 2 2 1 2 3 2 3 2 1 2 3 4 2 4 3 2 1 2 3 4 5	This is how the spaces look like:
Enter the number of lines: 3 ↔ 1 2 1 2 2 2 1 2 3	This is how the spaces look like:

- 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 \leftarrow
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 ↩
```