

King Saud University  
College of Computer & Information Science  
CSC111 – Assignment 6  
All Sections

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## Instructions

1- You must submit your solution using Web-CAT grading system.

Web-CAT can be accessed from eclipse using the following IP  
address (single line):

`http://10.131.240.28:8080/Web-CAT/WebObjects/Web-CAT.woa/wa/assignments/eclipse`

2- Due date: Sunday OCT 25th at 11:59pm

3- You can discuss answers with your colleagues but **cheating is prohibited and there will be extreme consequences.**

## 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
    3 2 1 2 3
   4 3 2 1 2 3 4
  5 4 3 2 1 2 3 4 5
```

1- There are two spaces between each 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 last digit)

Name your class `Pyramid`.

## Question 2

Write a program that breaks a number into its digits. Program keeps prompting the user to enter an integer and displays the digits of that integer until 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
```