**Homework assignment #5 “Functions and for loops”**

**Deadline:** Sunday, March 22 before 23:59pm

Follow the guidance on submission posted on my webpage or a penalty of 15% will be applied to your grade for this HW

**Description:**
Write a program that has a function that draws a U shape, where size of the U shape and a character printed is based on user’s input.

**Logical Flow:**
1. Ask the user to enter a positive even integer and a character to draw.
2. If value is not legal (n is not positive), repeatedly ask until user gives valid input.
3. Create a nested loop that will draw the U shape:
   a. The output loop is responsible for drawing each row
   b. The inner loop is responsible for drawing each character in that row
   c. If current position is the first column draw the character
   d. Else if the current position is the last column draw the character
   e. Else if the current position is the last row draw the character
   f. Else print out space character to fill in the in between space

**Example#1:** If the user enters 6 for n and “*” for symbol the program should print the following picture

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

6 x 6 U shape with “*” symbol

**Example#2:** If the user enters 6 for n and ”X” for symbol the program should print the following picture

```
X  X
X  X
X  X
X  X
X  X
XXXXXX
```

6 x 6 U shape with “X” symbol