Lab 5

Create a new Eclipse project named YourStudentId_Lab5 and add a class named Tester5 to the project.

1. Based on lab4 question 1, rewrite the program so that the user can input the score again and again until the input is "q".
   Hints:

int	parseInt(String s) Parses the string argument as a signed decimal integer.

```
String userInput = in.next();
//is userInput = "q"? if not, go to the following block.
    int score = Integer.parseInt(userInput); // parse String to int.
    //codes in lab4 question 1
    //ask the user to input a valid argument again.
```

   Sample output: (the green one is user input)

```
Please input a score(0~100) or q to quit the program: 70
B
Please input a score(0~100) or q to quit the program: 90
A
Please input a score(0~100) or q to quit the program: q
```

2. Write a program that prompts the user for a positive integer x, then prints all factors of x.
   Hints:
   Use the operator "%" and iterate through all positive integer smaller than the integer the user input (1 ~ number-1).
   Sample output: (the green one is user input)

```
Please input a positive integer:20
Factors of 20: 1 2 4 5 10
```

3. Print the funnel. Please use the for loop, print(), println(), the symbol "*" , and space " "to show a funnel on the console.
   Hint: nested for loop, count of "*" in each line: "7, 5, 3, 1, 1, 3, 5, 7".
   Sample output:

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

Submission: Submit your project as "zip (or rar) file" via WM5. No other submissions will be graded.

Reminder: Please zip the whole project

Deadline: Tomorrow's midnight (for both Mon56 and Tue23)