Computer Engineering Department Kuwait University

**CpE 201/02**

**Object Oriented Paradigm**

**HW#5**

**Due: Monday 23rd October 2017 at 23:55**

**Important Notes:**

1. **All files should be in one folder hw5YOURNAME (hw5Sara)**
2. **All files should be .java files (q1sara.java, q2sara.java, ...) with your Name & ID as comment in the top of the programs**
3. **Don't forget to change class name to match file name (Ex:q1sara.java --> class name should be q1sara)**
4. **Compress your folder and upload**
5. **Don't wait for the last minute, the upload my take sometime and if the submission is closed it will not be reopened**
6. **The files should also contain the output as a comment at the end of the program between /\*\*/**
7. **You have two jokers to be used for the homework. Each joker will give you a 24 hours delay. Once the homework is discussed in class no joker is accepted**
8. Write a program that generates a set of numbers based on differed criteria. Use a switch statement to handle the user choice and for loop to generate the numbers. You need to use do/while to repeat the menus for the user.

Sample Run:

Enter an interval (a, b): 1 10

1. Increment by 1
2. Increment by 2
3. Increment by one with a stopping value
4. Exit

Choose an option: 1

The new sequence is 1 2 3 4 5 6 7 8 9 10

1. Increment by 1
2. Increment by 2
3. Increment by one with a stopping value
4. Exit

Choose an option: 2

The new sequence is 1 3 5 7 9

1. Increment by 1
2. Increment by 2
3. Increment by one with a stopping value
4. Exit

Choose an option: 3

Enter a stopping value: 4

The new sequence is 1 2 3 4

1. Increment by 1
2. Increment by 2
3. Increment by one with a stopping value
4. Exit

Choose an option: 4

Thank You!!

1. Write an application that reads an integer (between 1 and 99) and output that integer in words. (Note: Use **switch** statement and **do while**)

Sample Run:

Please enter an integer (between 1 and 99)or -1 to exit: 78

You entered number Seventy-eight

Please enter an integer (between 1 and 99)or -1 to exit: 278

Incorrect number is entered!!!!!

Please enter an integer (between 1 and 99)or -1 to exit: 16

You entered number Sixteen

Please enter an integer (between 1 and 99)or -1 to exit: -1

You choose -1… BYE

1. Write an application that prompts the user to enter an integer **limit** and then print the numbers from 1 to this limit in the following format. The number read should not be greater than 10 and should not be negative. Use **for loops.**

**Enter the limit: 50**

**Invalid limit. Please re-enter the limit: -2**

**Invalid limit. Please re-enter the limit: 5**

**1 \* \* \* \***

**1 2 \* \* \***

**1 2 3 \* \***

**1 2 3 4 \***

**1 2 3 4 5**

1. Read the code given in slides 115 – 120 of chapter 5.
   1. Write and Run the code and attach your code (.java) with output using any format (word, picture, pdf, …etc).
   2. Modify the above code to show only *n* shapes (either squares or rectangles) in each call where *n* is read from the user via showInputDialog.

Sample run 4:



