COP-2210 – Lab 6

Objective

Students will be able to develop Java programs involving iteration statements, implementing exercises that require the use of the FOR-loop statement.

Guidelines

- The assignment is to be completed in pairs.
- Questions are based on content discussed in the Lecture and book readings.
- NetBeans is the IDE of choice.
- Students are expected to attend each lab session and actively participate in the lab activities.
- Lab should be completed and submitted by the end of the lab time. Extra time would be considered on a case by case analysis and last day to submit would be Friday.
- To submit, upload your lab solutions to the dropbox in Canvas.
- Make sure you include the information of the developers as a comment in the first lines of each program of the lab:

Student Name: _____ Student Name: _____
Panther ID: _____ Panther ID: _____
Week: _____
Section: _____

Lab Questions

The lab involves completing a number of questions from the Chapter 6 of our textbook.

1) **E6.2 c.** Write a program that computes all powers of 2 from 2^0 up to 2^{20}.

2) **E6.2 a.** Write a program that computes the sum of all even numbers between 2 and 100 (inclusive).

3) **E6.2 d.** Write a program that computes the sum of all odd numbers between a and b (inclusive), where a and b are inputs.

4) **E6.4 c.** Write a program that reads a line of input as a string and prints the string, with all vowels replaced by an underscore.

5) **A variation of Exercise E6.18** Write a program that reads an integer and displays, using asterisks, a hollow square. For example, if the side length is 5, the program should display

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

Grading Rubric

Lab grade is 10 points (out of 1000 total course points). Question weights are as follows:

Question	Points
1	1 pts
2	2 pts
3	2 pts
4	2 pts
5	3 pts

Answers will be graded based on correctness, completion, and organization.