CSE 1300

ASSIGNMENT 4

Python Programming – Practice with Variables, Loops, and Conditionals

Overview:

This assignment helps you practice Python basics including arithmetic operations, loops, and condition checking. You will write short Python programs for each part and submit both the code and output.

Part A: Arithmetic & Formatting

Task:
Write a Python program that accepts two numbers from the user and calculates the **average**.

Next, display the result formatted to **3 decimal places** using `print()`.

Example Output:

```
Enter first number: 5
Enter second number: 3
The average is: 4.000
```

Part B: For Loop Pattern

Task:
Write a Python program using a `for` loop to print the following triangle number pattern:

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

You can use `range()` and `for` loops to build the pattern line by line.

Part C: Even or Odd Checker

Task:
Write a Python program to check if a given number is **even** or **odd**.

Use `input()` to get the number from the user, and `if...else` to determine and print the result.

Example Output:

```
Enter a number: 16
16 is an Even number

Enter a number: 7
7 is an Odd number
```

Submission Requirements:

- Submit a **Word document** with your Python code for each part.
- Include **screenshots of your program output** for each part.
- Submit your work on **D2L under the Assignments tab**.