

**LAB 5: CONTROL STRUCTURE IN PYTHON – REPETITION STATEMENT****Instructions:**

- You are to code the following programs in the lab and show the output to your lecturer.
- Write comment to make your programs readable.
- Use descriptive variables in your program (Name of the variables should show their purposes)
- **Note:** Design the solution using pseudocode before coding

**Part A:** Learn how to use the Repetition control statements (for, while) in Python

1. Convert the program design for Question 1, 5 and 6 from previous Lab 2 – Problem Solving Control Structure lab exercise.
2. Write a program that able to print the even number that in the between of 2 to 50.

**Output sample:**

2	4	6	8
10	12	14	16
18	20	22	24
26	28	30	32
34	36	38	40
42	44	46	48

**Part B: Test yourself!**

1. Write a Python program to display numbers from 1 to 20. **Note:** use all types of repetitive structures
2. Write a Python program to create a multiplication table of 7.
3. Use a proper iterative structure to write a program that will read **names** and **exam scores** of students. The class **average** is to be calculated and printed at the end of the report. Score can **range from 0 to 100**. Score **out of the range** is not to be included in the calculations.
4. Write a Python program to construct the following pattern, using a nested for loop.

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