

## General instructions for PLC lab:

- Dividing the section into 2 batches.  
Roll no. 1-35 (Batch 1 - Spoorthi D M)  
Roll no 36 - 70 (Batch 2 - Chetana RJ)  
Sit according to roll numbers in the lab.
- Listing the Programs to be done in the first lab and show the output of these to the faculty incharge.
- New book has to be used for observation, whatever you are executing in the lab, should be written in the observation with a **problem statement, program and output** with 2 or more test cases and get it signed by the faculty incharge.

### Steps for execution:

- Open Python IDLE.
- To create a file, click on File -> New File
- Type the python program in the file and save it with .py extension in D drive(create a new folder in D drive by your name and save all your python files in that folder)
- Execution: Save the file(Ctrl+S) and Click on Run/press F5.

1. Python Program to print "Hello world"
2. Print the types of values using type() function
3. Create variables, read the input from the user and print the values of variables.
4. Evaluate the expressions given below and print the values of x, y and z
  - a.  $x = (4-2)*(5-2)$
  - b.  $y = (1+1)**(5-2)$
  - c.  $z = (4*5/2)+(4-3+1)$
5. Python Program to perform all arithmetic operations(+, -, \*, /, //, \*\*)
6. Perform string concatenation using + operator
7. Perform string content multiplication using \* operator
8. Python program to check number is even or odd.
9. Python program to print whether the entered number is zero, +ve or -ve value.
10. Python program to convert fahrenheit to celsius
11. Check short circuit evaluation of logical operators.
12. Python program to find factorial of a number.
13. Python program to find sum of first n natural numbers.
14. Python program to check if the number is palindrome or not.
15. Python program to print min and max of given list(of for loop)
16. Check range() function execution by giving different arguments(with 1,2 and 3 arguments)
17. Create a string, print the characters one by one using an index and check whether the entered character is present in the string or not.