**Practical No 01**

**Unruled Side**

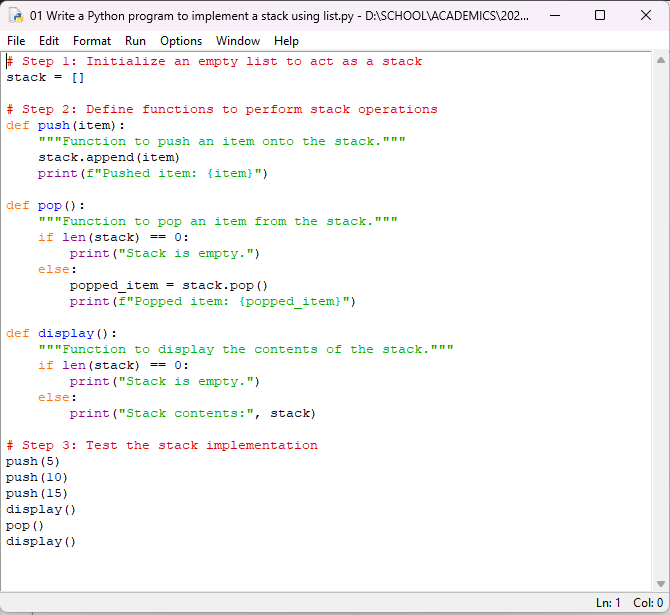
**Write with Pencil**

**Objective** - Write a Python program to implement a stack using list.

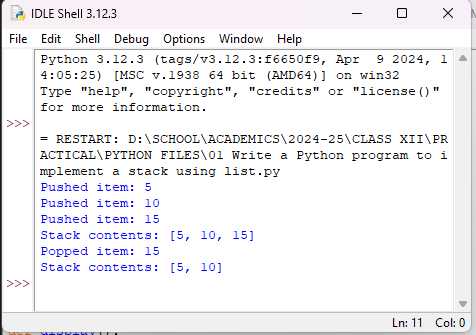
**Software and System Requirements -**

1. Windows 10 / 11 with basic configuration
2. Python3 installed on the system.

**Screenshot of Code –**

****

**Output –**

****

**Conclusion –**

In this practical exercise, we successfully implemented a stack using a list in Python. The stack operations of push, pop, and display were implemented as functions. This implementation provides a simple and efficient way to utilize stack functionality in Python programs.

**Practical No 01**

**Ruled Side**

**Write with Pen**

**Objective** - Write a Python program to implement a stack using list.

**Software and System Requirements -**

1. Windows 10 / 11 with basic configuration
2. Python3 installed on the system.

**Handwritten Source Code –**

**A screen shot of a computer program

Description automatically generated**

**Points for Consideration:**

1. This implementation of a stack is based on Python's list data structure.
2. The push function adds an item to the top of the stack, the pop function removes and returns the top item, and the display function shows the current contents of the stack.
3. Ensure proper error handling for stack underflow (popping from an empty stack).
4. Use meaningful variable and function names for better readability and understanding.

**Conclusion –**

In this practical exercise, we successfully implemented a stack using a list in Python. The stack operations of push, pop, and display were implemented as functions. This implementation provides a simple and efficient way to utilize stack functionality in Python programs.