**Practical 8**

**Aim:** Write a Program in Python to implement a Stack Data Structure using Class and Objects, with push, pop, and traversal method.

**Code:**

class node:

    def \_\_init\_\_(self, data, next):

        self.data = data

        self.next = next

def push(head, data):

    new\_node = node(data, head)

    head = new\_node

    return head

def pop(head):

    if head is None:

        return None

    data = head.data

    head = head.next

    return data, head

def traverse(head):

    while head is not None:

        print(head.data)

        head = head.next

head = node(1, None) # Create a node with data 1

head = push(head, 2) # Push 2 onto the stack

head = push(head, 3) # Push 3 onto the stack

head = push(head, 4) # Push 4 onto the stack

data, head = pop(head) # Pop the stack

traverse(head) # Print the stack

# Github Repo Link: https://github.com/s-shubham-22/20CE123\_CE259\_PIP

**Output:**

