

Practical 8

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

Code	<pre> class Stack: def __init__(self): self.stack = [] def check_empty(self): return self.stack == [] def push(self, data): self.stack.append(data) print(f"{data} is added to the stack") def pop(self): if(self.check_empty()): return "Stack is Empty" return self.stack.pop() def display(self): print("Stack is ",end="") for i in self.stack: print(i,end=" ") stack = Stack() print("Pushing operation in stack") stack.push("1") stack.push("2") stack.push("3") stack.push("4") stack.display() print("\nPopping operation in stack") stack.pop() stack.display() </pre>
Output	<pre> Pushing operation in stack 1 is added to the stack 2 is added to the stack 3 is added to the stack 4 is added to the stack Stack is 1 2 3 4 Popping operation in stack Stack is 1 2 3 </pre>