IDB2 DSALGO1

1.

```
S = Stack()
S.push(5)
S.push(3)
print("Length:",len(S.items))
print("Popped Element:",S.pop())
print ("Stack empty?",S.is_empty())
print("Popped Element",S.pop())
print ("Stack empty?",S.is_empty())
print("Popped Element",S.pop())
S.push(7)
S.push(9)
print("Top Element:",S.top())
S.push(4)
print("Popped Element",S.pop())
print("Length: ",len(S.items))
S.push(6)
S.push(8)
print("Popped Element",S.pop())
```

OUTPUT:

```
Length: 2
Popped Element: 3
Stack empty? False
Popped Element 5
Stack empty? True
Popped Element Stack is empty
Top Element: 9
Popped Element 4
Length: 2
Popped Element 8
```

2.

```
S=Stack()
print()
print()
S.push(5)
S.push(3)
S.push(2)
S.push(8)
print("Popped Element:",S.pop())
print("Popped Element:",S.pop())
S.push(9)
S.push(1)
print("Popped Element:",S.pop())
S.push(7)
S.push(6)
print("Popped Element:",S.pop())
print("Popped Element:",S.pop())
S.push(4)
print("Popped Element:",S.pop())
print("Popped Element:",S.pop())
```

OUTPUT:

```
Popped Element: 8
Popped Element: 2
Popped Element: 1
Popped Element: 6
Popped Element: 7
Popped Element: 4
Popped Element: 9
```