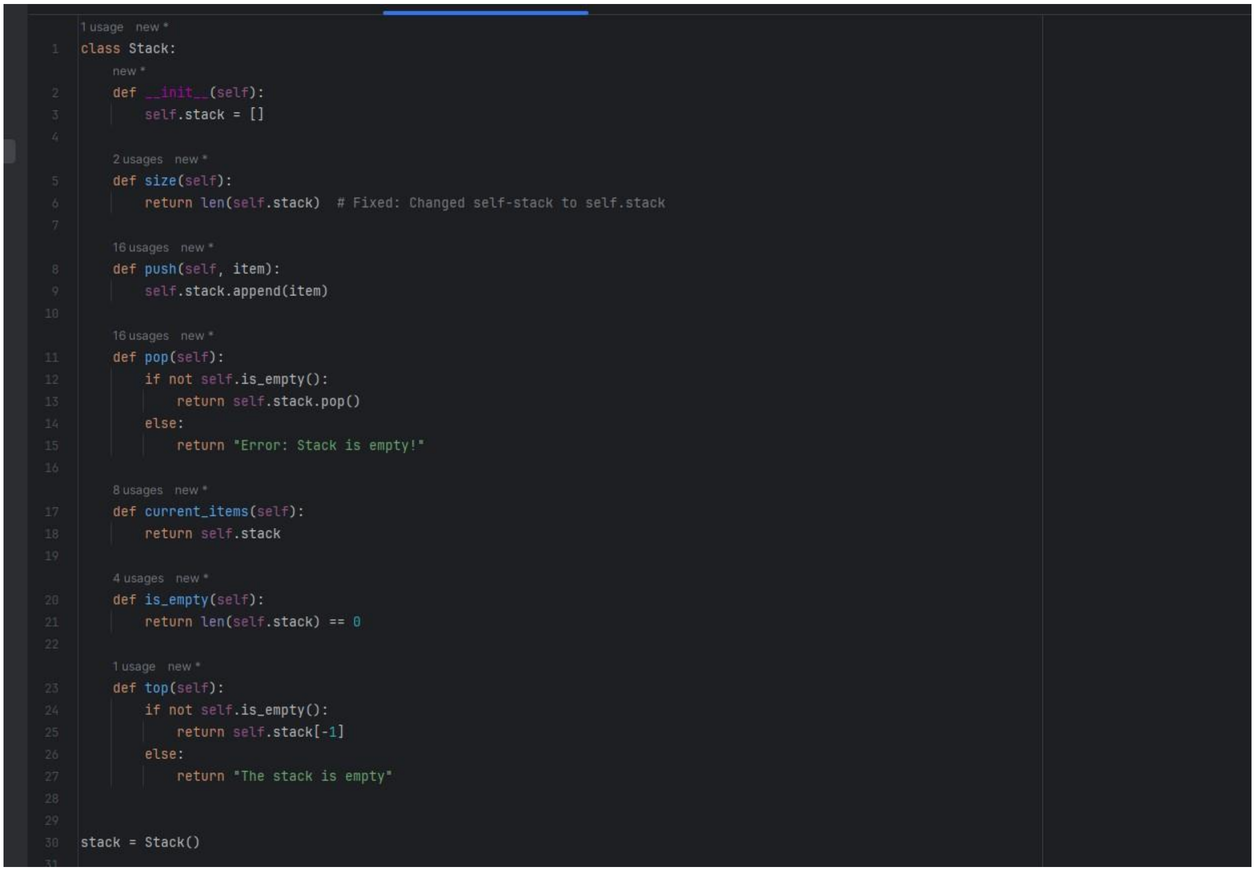
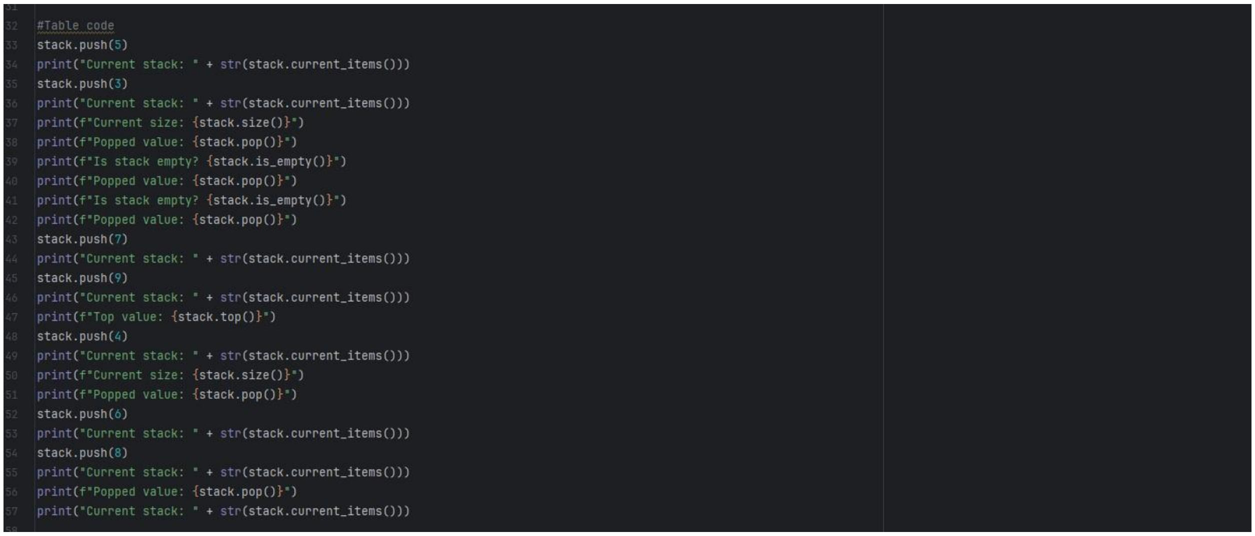
Erece, Kian Relioe B.

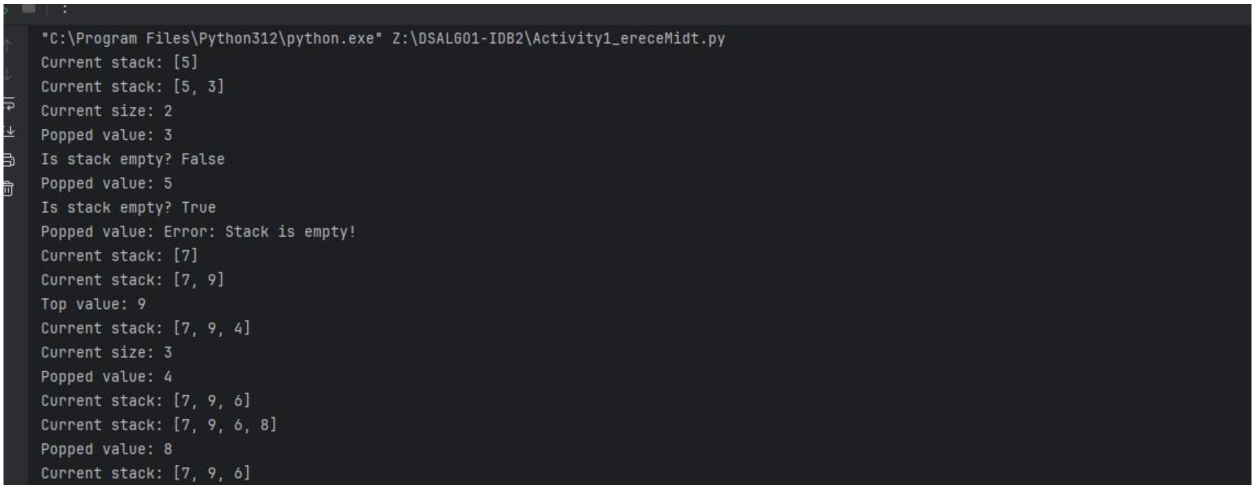
Table



```python
class Stack:
    def __init__(self):
        self.stack = []

    def size(self):
        return len(self.stack)  # Fixed: Changed self-stack to self.stack

    def push(self, item):
        self.stack.append(item)

    def pop(self):
        if not self.is_empty():
            return self.stack.pop()
        else:
            return "Error: Stack is empty!"

    def current_items(self):
        return self.stack

    def is_empty(self):
        return len(self.stack) == 0

    def top(self):
        if not self.is_empty():
            return self.stack[-1]
        else:
            return "The stack is empty"


stack = Stack()
```

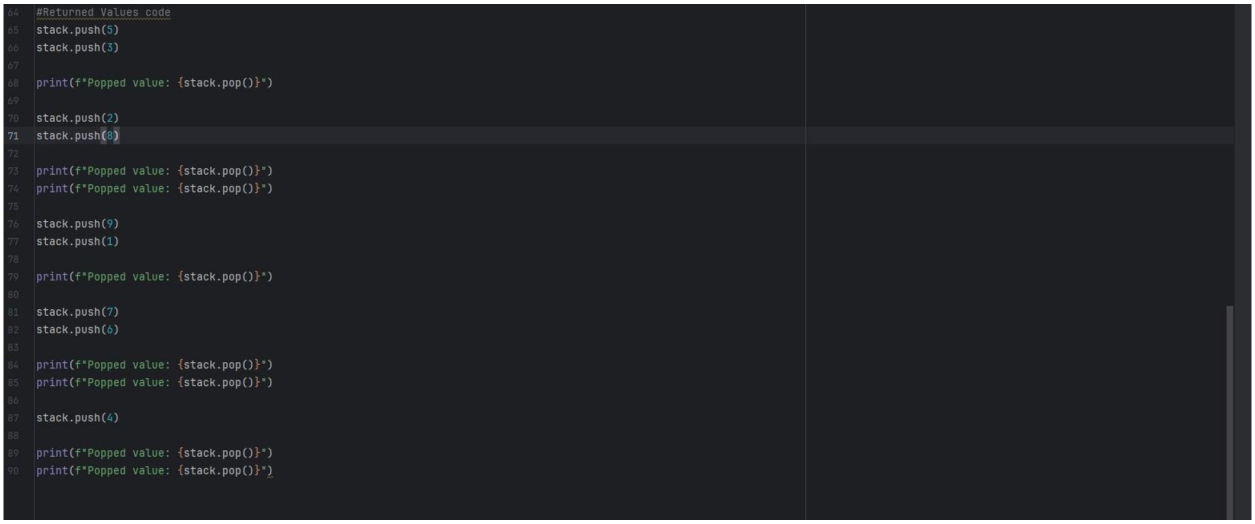


```python
#Table code
stack.push(5)
print("Current stack: " + str(stack.current_items()))
stack.push(3)
print("Current stack: " + str(stack.current_items()))
print(f"Current size: {stack.size()}")
print(f"Popped value: {stack.pop()}")
print(f"Is stack empty? {stack.is_empty()}")
print(f"Popped value: {stack.pop()}")
print(f"Is stack empty? {stack.is_empty()}")
print(f"Popped value: {stack.pop()}")
stack.push(7)
print("Current stack: " + str(stack.current_items()))
stack.push(9)
print("Current stack: " + str(stack.current_items()))
print(f"Top value: {stack.top()}")
stack.push(4)
print("Current stack: " + str(stack.current_items()))
print(f"Current size: {stack.size()}")
print(f"Popped value: {stack.pop()}")
stack.push(6)
print("Current stack: " + str(stack.current_items()))
stack.push(8)
print("Current stack: " + str(stack.current_items()))
print(f"Popped value: {stack.pop()}")
print("Current stack: " + str(stack.current_items()))
```

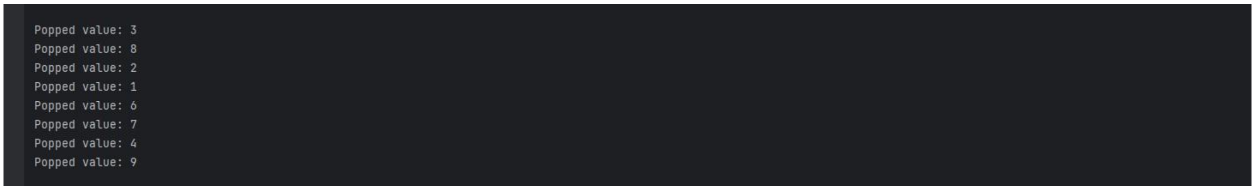


```
"C:\Program Files\Python312\python.exe" Z:\DSALG01-IDB2\Activity1_ereceMidt.py
Current stack: [5]
Current stack: [5, 3]
Current size: 2
Popped value: 3
Is stack empty? False
Popped value: 5
Is stack empty? True
Popped value: Error: Stack is empty!
Current stack: [7]
Current stack: [7, 9]
Top value: 9
Current stack: [7, 9, 4]
Current size: 3
Popped value: 4
Current stack: [7, 9, 6]
Current stack: [7, 9, 6, 8]
Popped value: 8
Current stack: [7, 9, 6]
```

What values are returned during the following series of stack operations, if executed upon an initially empty stack? **push(5), push(3), pop(), push(2), push(8), pop(), pop(), push(9), push(1), pop(), push(7), push(6), pop(), pop(), push(4), pop(), pop()**.



```
#Returned Values code
stack.push(5)
stack.push(3)

print(f"Popped value: {stack.pop()}")

stack.push(2)
stack.push(8)

print(f"Popped value: {stack.pop()}")
print(f"Popped value: {stack.pop()}")

stack.push(9)
stack.push(1)

print(f"Popped value: {stack.pop()}")

stack.push(7)
stack.push(6)

print(f"Popped value: {stack.pop()}")
print(f"Popped value: {stack.pop()}")

stack.push(4)

print(f"Popped value: {stack.pop()}")
print(f"Popped value: {stack.pop()}")
```



```
Popped value: 3
Popped value: 8
Popped value: 2
Popped value: 1
Popped value: 6
Popped value: 7
Popped value: 4
Popped value: 9
```