Activity No. 4	
Stacks	
Course Code: CPE010	**Program:** Computer Engineering
Course Title: Data Structures and Algorithms	**Date Performed:** 10 / 04 / 2024
Section: CPE21S4	**Date Submitted:** 10 / 05 / 2024
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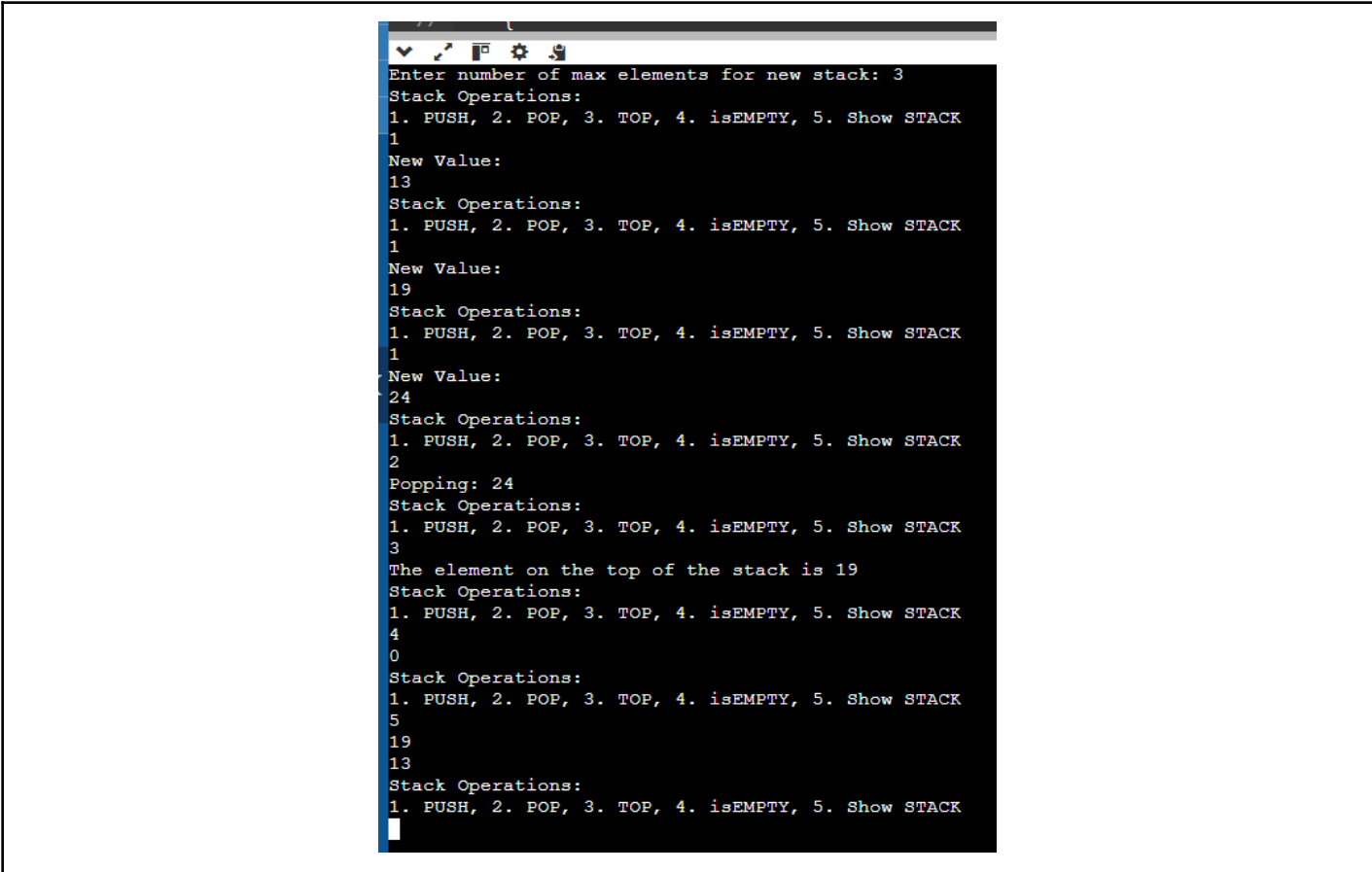**6. Output**
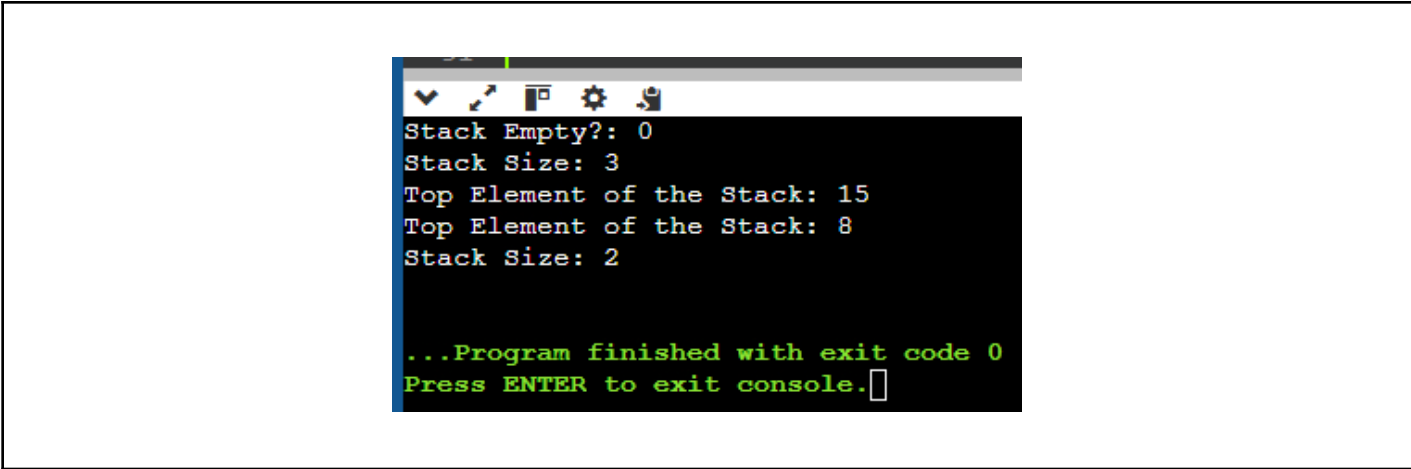
TABLE 4-1. Table Output of ILO A.

TABLE 4-2. Table Output of ILO B-1.

TABLE 4-3. Table Output of ILO B-2.

7. Supplementary Activity

Expression	Valid (Y / N)	Output	Analysis
(A + B) + (C - D)	Y	Expression: (A+B)+(C-D) Start and/or end symbol/s have the same pair.	Parentheses within the given expression are completely and correctly paired.
((A + B) + (C - D)	N	Expression: ((A+B)+(C-D) Start and/or end symbol/s does not have a pair.	Starting parenthesis does not have a pair.
((A + B) + [C - D])	Y	Expression: ((A+B)+[C-D]) Start and/or end symbol/s have the same pair.	Parentheses and square brackets within the given expression are completely and correctly paired.
((A + B] + [C - D]}	N	Expression: ((A+B]+[C-D]} Start and/or end symbol/s are mismatched.	Some brackets within the expression are incorrectly paired to one another

8. Conclusion

I have learned more about how stacks are used and use necessary operations to manipulate them. I think I have done the needed tasks in this experiment well, such as creating the display function for the task within the ILO B-1. As for the supplementary activity, I can say that I have struggled to create a condition for identifying the proper pairings of brackets from the given expressions, but I managed to accomplish it as well.

9. Assessment Rubric