

Activity No. <n>	
<Seatwork 4.1 : Stacks >	
Course Code: CPE010	Program: Computer Engineering
Course Title: Data Structures and Algorithms	Date Performed: 8/12/25
Section: CPE21S4	Date Submitted: 8/12/25
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6. Output:

The screenshot shows a C++ IDE with a source file named 'Seatwork 4.1\_Stacks\_Alcantara\_Jason.cpp'. The code implements a stack using an array and a 'top' pointer. The 'showstack' function prints the stack's state, including its size, top element, and the entire stack from top to bottom. The 'main' function pushes the values 100, 200, 300, 400, and 500 onto the stack, then calls 'showstack' to display the contents. The output window shows the following text:

```

The stack is :
s.size() : 5
s.top() : 1
s.pop() :
Process exited after 0.01438 seconds with return value 0
Press any key to continue . . .

```

The IDE also shows the compilation results at the bottom, indicating that the program compiled successfully without any errors or warnings.

7. Supplementary Activity

8. Conclusion:

The program shows us the basic operations of the stack using c++. The showstack functions takes the copy and stack to print each elements from top to bottom.

9. Assessment Rubric