Activity No. 4.1	
Seatwork 4.1 : Stacks	
Course Code: CPE010	**Program:** Computer Engineering
Course Title: Data Structures and Algorithms	**Date Performed:8/12/25**
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6. Output

[*] stack.cpp

```cpp
#include <iostream>
#include <stack>

void showstack(stack <int> s)
{
    while (!s.empty())
    {
        std::cout << '\t' << s.top();
        s.pop();
    }
    std::cout << '\n';
}

int main ()
{
    stack <int> s;
    s.push(10);
    s.push(30);
    s.push(20);
    s.push(5);
    s.push(1);

    std::cout << "The stack is: ";
    showstack(s);

    std::cout << "\ns.size() : " << s.size();
    std::cout << "\ns.top() : " << s.top();

    cout << "\ns.pop() : ";
    s.pop();
    showstack(s);
    return 0;
}
```

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```
The stack is:   1       5       20      30      10

s.size() : 5
s.top() : 1
s.pop() :       5       20      30      10

--------------------------------
Process exited after 0.006951 seconds with return value 0
Press any key to continue . . .
```

8. Conclusion

This activity has taught me how to create a stack in c++. It is used for storing and managing elements in a specific order. It follows the principle of first-in first-out.