Seatwork 4.1	
Stacks	
Course Code: CPE010	**Program:** Computer Engineering
Course Title: Data Structures and Algorithms	**Date Performed:** Aug 12, 2025
Section: CPE12S4	**Date Submitted:** Aug 12, 2025
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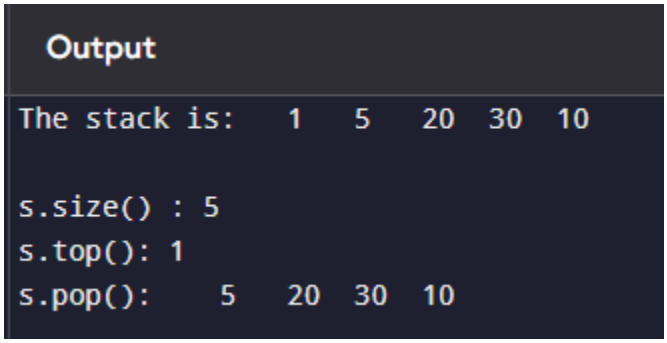
6. Output



7. Supplementary Activity

main.cpp

Run

```cpp
#include<iostream>
#include<stack>
using namespace std;

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

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

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

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

    cout<<"\ns.pop(): ";
    s.pop();
    showstack(s);

    return 0;
}
```

8. Conclusion

from what I have understood in this lesson, about how the stacks work. So first we check if the stack is empty and determine which ones are at the top and will pop. stack works as last in first out, unlike queue its who ever goes in first will go out first.

9. Assessment Rubric