

OUTPUT TASK04

Enter the number of elements you want in your stack: 7

===== MAIN MENU FOR STACK UPDATION =====

Enter your desired operation option:

- 1) PUSH: Insert an element into the stack
- 2) POP: Remove the top element from the stack
- 3) PEEK: Display the top element without removing it
- 4) DISPLAY: Show all elements currently in the stack
- 5) EXIT

1

Enter an element to your stack: 1

Element '1' added successfully!

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1

Enter an element to your stack: 2

Element '2' added successfully!

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1

Enter an element to your stack: 3

Element '3' added successfully!

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2

Top most element removed successfully!

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2

Top most element removed successfully!

===== MAIN MENU FOR STACK UPDATION =====

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2

Top most element removed successfully!

===== MAIN MENU FOR STACK UPDATION =====

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2

Stack Underflow Detected. Stack is empty. No elements remaining to remove from the stack.

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Enter your desired operation option:

```
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Enter an element to your stack: 1

Element '1' added successfully!

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1

Enter an element to your stack: 2

Element '2' added successfully!

```
===== MAIN MENU FOR STACK UPDATION =====
Enter your desired operation option:
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```

1

Enter an element to your stack: 3

Element '3' added successfully!

```
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Enter your desired operation option:
1) PUSH: Insert an element into the stack
2) POP: Remove the top element from the stack
```

2) POP: Remove the top element from the stack
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5) EXIT

1

Enter an element to your stack: 4

Element '4' added successfully!

===== MAIN MENU FOR STACK UPDATION =====

Enter your desired operation option:

1) PUSH: Insert an element into the stack
2) POP: Remove the top element from the stack
3) PEEK: Display the top element without removing it
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5) EXIT

1

Enter an element to your stack: 5

Element '5' added successfully!

===== MAIN MENU FOR STACK UPDATION =====

Enter your desired operation option:

1) PUSH: Insert an element into the stack
2) POP: Remove the top element from the stack
3) PEEK: Display the top element without removing it
4) DISPLAY: Show all elements currently in the stack
5) EXIT

1

Enter an element to your stack: 6

Element '6' added successfully!

===== MAIN MENU FOR STACK UPDATION =====

Enter your desired operation option:

1) PUSH: Insert an element into the stack
2) POP: Remove the top element from the stack
3) PEEK: Display the top element without removing it
4) DISPLAY: Show all elements currently in the stack
5) EXIT

```
1

Enter an element to your stack: 7

Element '7' added successfully!

===== MAIN MENU FOR STACK UPDATION =====
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4) DISPLAY: Show all elements currently in the stack
5) EXIT

1
Stack Overflow Detected. No space to add elements to the stack.

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3) PEEK: Display the top element without removing it
4) DISPLAY: Show all elements currently in the stack
5) EXIT

3

Peek element is: 7

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4) DISPLAY: Show all elements currently in the stack
5) EXIT

4
```

Displaying the stack:

7
6
5
4
3
2
1

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- 5) EXIT

2

Top most element removed successfully!

===== MAIN MENU FOR STACK UPDATION =====

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2

Top most element removed successfully!

===== MAIN MENU FOR STACK UPDATION =====

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5) EXIT

3

Peek element is: 5

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- 4) DISPLAY: Show all elements currently in the stack
- 5) EXIT

4

Displaying the stack:

5
4
3
2
1

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5

GOODBYE !