

- **The implementation details of your stack using arrays.**

I used a global variable for the size of the array and the top of the array. I just made functions and the reason why I declared global variables is so that it can be accessed by all of the functions.

I also made six functions in which each function has a specific role.

- **Screenshots of Sample input and output demonstrating the stack operations.**

```
Push: 5
Push: 6
Push: 7
Push: 8
Push: 10
The Top of the Array: 10
Pop: 10
Pop: 8
Array is NOT Empty.
Push: 90
Push: 81
Push: 110
Pop: 110
The Top of the Array: 81
Array is NOT Full.
PS C:\Users\Kyla\Documents\C++\C++ VSCode>
```

```
Push: 5
Push: 6
Push: 7
Push: 8
Push: 10
The Top of the Array: 10
Pop: 10
Pop: 8
Array is NOT Empty.
Push: 90
Push: 81
Push: 110
Push: 900
Push: 98
Push: 10
Push: 100
Pop: 100
The Top of the Array: 10
Array is NOT Full.
PS C:\Users\Kyla\Documents\C++\C++ VSCode>
```

```
PS C:\Users\Kyla> cd "c:\Users\Kyl
Array is Empty
Push: 5
Push: 6
Push: 7
Push: 8
Push: 10
The Top of the Array: 10
Pop: 10
Pop: 8
Array is NOT Empty.
Push: 90
Push: 81
Push: 110
Push: 900
Push: 98
Push: 10
Push: 100
Pop: 100
The Top of the Array: 10
Array is NOT Full.
```

- **Any challenges or insights you gained during the implementation.**  
I found the “Top” and “Peek” Functions a bit challenging. I also realized that I kept confusing the two data structures, array and linked lists so I figured I must practice on it.