Day – 16 of the 101 days coding Challenge

----------Stack----------
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- ⇨ Stack follows the principle of the LIFO(Last in first out)

- ⇨ Code:

```
#include<iostream>

using namespace std;

int arr[30], top = -1; // top is used for the index of the data
void push(int data) // inserting the data into the stack
{
        top+=1; // incrementing the top for inserting the data
        arr[top] = data;
}

void pop() // deleting the data
{
        if(top == -1) // during the empty stack
          cout<<"Empty stack"<<endl;
        else
        {
                top--; // decrementing the index's data
        }
}

void display() // displaing the data of the stack
{
        for(int i = top; i>=0; i--)
        {
```

```
            cout<<arr[i]<<endl;
        }
}
int main()
{

        push(20);
        push(30);
        push(40);
        cout<<"All the inserted data"<<endl;
        display();
        pop();
        cout<<"After deleting the one data"<<endl;
        display();
        return 0;
}
```

⇨ Output: