DS Lab-2

Stack Implementation.

```c
#include <stdio.h>
#include <process.h>
#include <stdlib.h>

int top = -1, stack[MAX];
void push();
void pop();
void display();

void main()
{
    int int ch;
    while (1)
    {
        printf("\n*** Stack Menu ***");
        printf("\n\n1. Push \n2. pop \n3. Display
               \n 4. Exit");
        printf("\n\n Enter your choice (1-4):");
        scanf("%d", &ch);

        switch (ch)
        {
            case 1 : push();
                     break;
```

```c
        case 2 : pop();
                break;
        case 3 : display();
                break();
        case 4 : exit(0);
        default : printf("\n Wrong choice");
        }
    }
}
void push()
{
    int val;
    if (top == MAX-1)
    {
        printf("\n Stack is full");
    }
    else
    {
        printf("\n Enter element to push : ");
        scanf("%d", &val);
        top = top + 1;
        stack[top] = val;
    }
}
```