

```
#include <stdio.h>

#define MAX 10

int stack[MAX];

int top == -1;

void push(int element)
{
    if(top ==MAX - 1 )
    {
        printf("Stack Overflow \n");
    }
    else
    {
        stack[top++]= element;
        printf("%d pushed to stack \n", element);
    }
}

void pop(int value)
{
    if(top == -1)
    {
        printf("Stack Underflow");
    }
    else
    {
        stack(top--)= value;
        printf("%d popped from stack \n", value);
    }
}
```

```

}

void display()
{
    if (top == -1)
    {
        printf("Stack is empty \n");
    }
    else
    {
        printf("stack elements(top to bottom)");
        for(int i = top;i >= 0; i--)
        {
            printf("%d",stack[i]);
        }
        printf("\n");
    }
}

```

```

int main()
{
    int element,option;
    while(1)

    {
        printf(****MAIN MENU****);
        printf("\n 1.push");
        printf("\n 2.pop");
    }
}

```

```
printf("\n 3.Display");
printf("***EXIT***");
printf("Enter your Choice:");
scanf("%d",&option);
switch(option)
{
    case 1:
        printf("Enter value to push: ");
        scanf("%d",&element);
        push(element);
        break;
    case 2:
        pop();
        break;
    case 3:
        display();
        break;
    case 4:
        printf("Exiting program \n");
        return 0;
    default:
        printf("Invalid Option \n")
}
}
```

OUTPUT:

