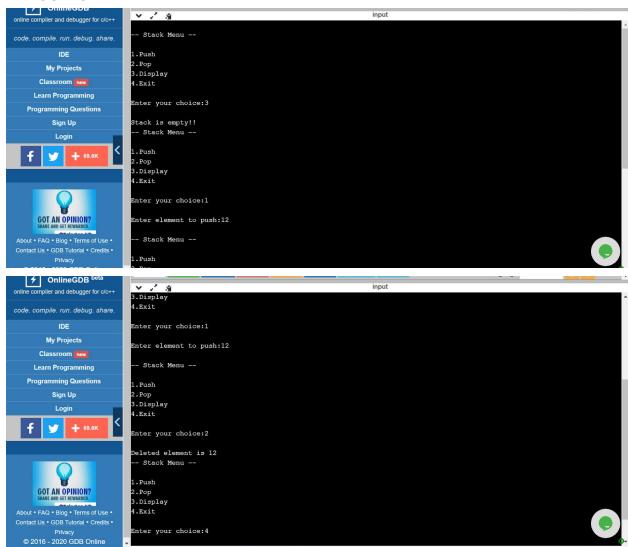
LAB 2: STACK IMPLEMENTATION

Date: 28th sept 2020

```
#include<stdio.h>
#include<stdlib.h>
#define MAX 5
int top=-1,stack[MAX];
void push();
void pop();
void display();
void main()
{
       int ch;
       while(1)
       {
               printf("\n-- Stack Menu --");
               printf("\n\n1.Push\n2.Pop\n3.Display\n4.Exit");
               printf("\n\nEnter your choice:");
               scanf("%d",&ch);
               switch(ch)
               {
                       case 1: push();
                                      break;
                       case 2: pop();
                                      break;
                       case 3: display();
                                      break;
                       case 4: exit(0);
                       default: printf("\nWrong Choice!!");
               }
       }
}
void push()
```

```
int val;
        if(top==MAX-1)
        {
               printf("\nStack is full");
       }
        else
        {
               printf("\nEnter element to push:");
               scanf("%d",&val);
               top=top+1;
               stack[top]=val;
       }
}
void pop()
        if(top==-1)
       {
               printf("\nStack is empty!!");
        }
        else
       {
               printf("\nDeleted element is %d",stack[top]);
               top=top-1;
       }
}
void display()
{
        int i;
        if(top==-1)
       {
               printf("\nStack is empty!!");
        }
        else
        {
               printf("\nStack elements are: \n");
               for(i=top;i>=0;--i)
                       printf("%d\n",stack[i]);
       }
```

THE OUTPUT:



another one

