```c
#include <stdio.h>
#define MAX_SIZE 10

int S[MAX_SIZE], TOP = -1;

void push(int item)
{
           (TOP >= MAX_SIZE-1)
        {
              printf("The Stack is Full\n");
        }

        {
              TOP = TOP + 1;
              S[TOP] = item;
              printf("%d pushed into the stack.\n", item);
        }
}

void pop()
{
           (TOP < 0)
        {
              printf("The Stack is Empty\n");
        }

        {
              printf("The popped Element is %d\n", S[TOP]);
              TOP = TOP - 1;
        }
}

void display()
{
          (TOP>=0)
        {
              printf("STACK elements: ");
                  (int i = TOP; i >= 0; i--)
              {
              printf("%d ", S[i]);
              }
              printf("\n");
        }

        {
              printf("Stack is Empty");
        }
}

int main()
{
        int choice, element, n=0;
             (n!=1)
        {
              printf("\nSTACK OPERATIONS\n");
              printf("1.PUSH\t 2.POP\t 3.DISPLAY\t 4.EXIT\n");
              printf("ENTER THE OPTION (1-4): ");
              scanf("%d", &choice);

                     (choice)
              {
                           1:
```

```
                        printf("Enter the element to be inserted: ");
                        scanf("%d", &element);
                        push(element);
                             ;

                             2:
                        pop();
                             ;

                             3:
                        display();
                             ;

                             4:
                        printf("EXITING....\n");
                        n++;
                             ;

                               :
                        printf("Invalid choice! Please select between 1-4.\n");
                }
        }
                0;
}
```