```
C:\Users\MEGHA\Documents\MITHUN\practice\dsweek1.exe
The popped element is 1
Enter the Choice:2

UNDERFLOW
Enter the Choice:1
Enter a value to be pushed:1

Enter the Choice:1
Enter a value to be pushed:2

Enter the Choice:1
Enter a value to be pushed:3

Enter the Choice:1
Enter a value to be pushed:4

Enter the Choice:3

The elements in stack are as follows:
        4,      3,      2,      1,
Press Next Choice
Enter the Choice:2

The popped element is 4
Enter the Choice:2

The popped element is 3
Enter the Choice:2

The popped element is 2
Enter the Choice:2

The popped element is 1
Enter the Choice:2

UNDERFLOW
Enter the Choice:3

The stack is empty
Enter the Choice:
```

```
C:\Users\MEGHA\Documents\MITHUN\practice\dsweek1.exe

 Enter the size of stack:4

 select ur choice:
 1.Push
 2.Pop
 3.display
 4.exit
 Enter the Choice:1
 Enter a value to be pushed:1

 Enter the Choice:1
 Enter a value to be pushed:2

 Enter the Choice:1
 Enter a value to be pushed:3

 Enter the Choice:1
 Enter a value to be pushed:4

 Enter the Choice:1

STACK OVERFLOW
 Enter the Choice:2

 The popped element is 4
 Enter the Choice:2

 The popped element is 3
 Enter the Choice:2

 The popped element is 2
 Enter the Choice:2

 The popped element is 1
 Enter the Choice:2

UNDERFLOW
Enter the Choice:1
Enter a value to be pushed:1

Enter the Choice:1
Enter a value to be pushed:2

Enter the Choice:1
Enter a value to be pushed:3
```

```
    {
        printf("\nSTACK OVERFLOW");

    }
    else
    {
        printf(" Enter a value to be pushed:");
        scanf("%d",&no);
        top++;
        stack[top]=no;
    }
}
void pop()
{
    if(top<=-1)
    {
        printf("\n UNDERFLOW");
    }
    else
    {
        printf("\n The popped element is %d",stack[top]);
        top--;
    }
}
void display()
{
    if(top>=0)
    {
        printf("\n The elements in stack are as follows: \n");
        for(i=top;i>=0;i--)
            printf("\t%d,",stack[i]);
        printf("\n Press Next Choice");
    }
    else
    {
        printf("\n The stack is empty");
    }

}
```

```
                {
                    printf ("\nINVALID CHOICE!");
                }

            }
        }

        return 0;
}
void push()
{
    if(top>=n-1)
    {
        printf("\nSTACK OVERFLOW");

    }
    else
    {
        printf(" Enter a value to be pushed:");
        scanf("%d",&no);
        top++;
        stack[top]=no;
    }
}
void pop()
{
    if(top<=-1)
    {
        printf("\n UNDERFLOW");
    }
    else
    {
        printf("\n The popped element is %d",stack[top]);
        top--;
    }
}
void display()
{
    if(top>=0)
    {
        printf("\n The elements in stack are as follows: \n");
```

```c
#include<stdio.h>
#include<stdlib.h>
int stack[5];
void push(void);
void pop(void);
void display(void);
int n,top,no,i,ch;
int main()
{
    top=-1;
    printf("\n Enter the size of stack:");
    scanf("%d",&n);
    printf("\n select ur choice:");
    printf("\n 1.Push\n 2.Pop\n 3.display\n 4.exit");
    while(ch!='0')
    {
        printf("\n Enter the Choice:");
        scanf("%d",&ch);
        switch(ch)
        {
            case 1:
                push();
                break;
            case 2:
                pop();
                break;
            case 3:
                display();
                break;
            case 4:
                exit(0);
                break;
            default:
            {
                printf ("\nINVALID CHOICE!");
            }

        }
    }

    return 0;
```