main.c

Share Run

```c
    printf("stack:\n");
    for (int i = top; i >= 0; i--)
    {
        printf("%d\n", stack[i]);
    }
}

int main()
{
    int choice;

    while(1)
    {
        printf("enter the operation to perform on the stack:\n");
        printf("Enter:\n 1.push the element\n 2.pop the element\n 3.display operation\n 4
            .exit\n");
        scanf("%d", &choice);

        switch(choice)
        {
            case 1: push();
                    break;

            case 2: pop();
                    break;

            case 3: display();
                    break;

            case 4: exit(0);

            default: printf("invalid entry!");
        }
    }
}

```

Output

```
/tmp/fBoDYsxLrs.o
enter the operation to perform on the stack:
Enter:
 1.push the element
 2.pop the element
 3.display operation
 4.exit
2
underflow

=== Code Exited With Errors ===
```

main.c

Share Run

```
    printf("stack:\n");
    for (int i = top; i >= 0; i--)
    {
        printf("%d\n", stack[i]);
    }
}

int main()
{
    int choice;

    while(1)
    {
        printf("enter the operation to perform on the stack:\n");
        printf("Enter:\n 1.push the element\n 2.pop the element\n 3.display operation\n 4
            .exit\n");
        scanf("%d", &choice);

        switch(choice)
        {
            case 1: push();
                    break;

            case 2: pop();
                    break;

            case 3: display();
                    break;

            case 4: exit(0);

            default: printf("invalid entry!");
        }
    }
}

```

Output

```
/tmp/Vr6cEOkiAf.o
enter the operation to perform on the stack:
Enter:
 1.push the element
 2.pop the element
 3.display operation
 4.exit
1
enter the element to push:1
push operation successful!
enter the operation to perform on the stack:
Enter:
 1.push the element
 2.pop the element
 3.display operation
 4.exit
1
enter the element to push:2
push operation successful!
enter the operation to perform on the stack:
Enter:
 1.push the element
 2.pop the element
 3.display operation
 4.exit
2
popped element is 2
enter the operation to perform on the stack:
Enter:
 1.push the element
 2.pop the element
 3.display operation
 4.exit
3
stack:
1
```

main.c

Share Run

```c
void display()
{
    if (top == -1)
    {
        printf("underflow");
        exit(1);
    }
    printf("stack:\n");
    for (int i = top; i >= 0; i--)
    {
        printf("%d\n", stack[i]);
    }
}

int main()
{
    int choice;

    while(1)
    {
        printf("enter the operation to perform on the stack:\n");
        printf("Enter:\n 1.push the element\n 2.pop the element\n 3.display operation\n 4
            .exit\n");
        scanf("%d", &choice);

        switch(choice)
        {
            case 1: push();
                    break;

            case 2: pop();
                    break;

            case 3: display();
                    break;

```

Output

```
Enter:
 1.push the element
 2.pop the element
 3.display operation
 4.exit
1
enter the element to push:3
push operation successful!
enter the operation to perform on the stack:
Enter:
 1.push the element
 2.pop the element
 3.display operation
 4.exit
1
enter the element to push:4
push operation successful!
enter the operation to perform on the stack:
Enter:
 1.push the element
 2.pop the element
 3.display operation
 4.exit
1
enter the element to push:5
push operation successful!
enter the operation to perform on the stack:
Enter:
 1.push the element
 2.pop the element
 3.display operation
 4.exit
1
overflow

=== Code Exited With Errors ===
```

main.c

Share Run

```c
#include<stdio.h>
#include<stdlib.h>
#define SIZE 5
int top = -1, stack[SIZE];
void push()
{
    int n;
    if (top == SIZE - 1)
    {
        printf("overflow");
        exit(1);
    }
    printf("enter the element to push:");
    scanf("%d", &n);
    top += 1;
    stack[top] = n;
    printf("push operation successful!\n");
}

void pop()
{
    if (top == -1)
    {
        printf("underflow");
        exit(1);
    }
    printf("popped element is %d\n", stack[top]);
    top--;
}

void display()
{
    if (top == -1)
    {
        printf("underflow");
        exit(1);
```

Output

```
/tmp/XGoojb8amL.o
enter the operation to perform on the stack:
Enter:
 1.push the element
 2.pop the element
 3.display operation
 4.exit
1
enter the element to push:1
push operation successful!
enter the operation to perform on the stack:
Enter:
 1.push the element
 2.pop the element
 3.display operation
 4.exit
1
enter the element to push:2
push operation successful!
enter the operation to perform on the stack:
Enter:
 1.push the element
 2.pop the element
 3.display operation
 4.exit
1
enter the element to push:3
push operation successful!
enter the operation to perform on the stack:
Enter:
 1.push the element
 2.pop the element
 3.display operation
 4.exit
1
enter the element to push:4
```