

```

#include <stdio.h>
#define SIZE 5

int stack[SIZE];
int top = -1;

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

// Function to pop element from stack
void pop() {
    if (top == -1) {
        printf("Stack Underflow\n");
    } else {
        printf("%d popped from stack\n", stack[top]);
        top--;
    }
}

// Function to peek top element
void peek() {
    if (top == -1) {
        printf("Stack is Empty\n");
    } else {
        printf("Top element is %d\n", stack[top]);
    }
}

// Main menu-driven function
int main() {
    int choice, value;

    while (1) {
        printf("\nStack Operations:\n");
        printf("1. PUSH\n2. POP\n3. PEEK\n4. EXIT\n");
        printf("Enter your choice: ");
        scanf("%d", &choice);

        switch (choice) {
            case 1:

```

```

        printf("Enter value to PUSH: ");
        scanf("%d", &value);
        push(value);
        break;
    case 2:
        pop();
        break;
    case 3:
        peek();
        break;
    case 4:
        return 0;
    default:
        printf("Invalid choice! Try again.\n");
    }
}
}

```

```

C:\Users\user\OneDrive\Desk X + v

Stack Operations:
1. PUSH
2. POP
3. PEEK
4. EXIT
Enter your choice: 1
Enter value to PUSH: 10
10 pushed to stack

Stack Operations:
1. PUSH
2. POP
3. PEEK
4. EXIT
Enter your choice: 2
10 popped from stack

Stack Operations:
1. PUSH
2. POP
3. PEEK
4. EXIT
Enter your choice: 4

-----
Process exited after 14.02 seconds with return value 0
Press any key to continue . . .

```