```
#include <stdio.h>
#define size 3
int top=-1;
void push(int [], int);
int pop(int[]);
void display(int []);
int main(int argc, char **argv)
{
    int stack[size];
    int choice ,element;
    char ch;
    do
    {
    printf("Enter your choice\n");
    printf("1. Push\n");
    printf("2. Pop\n");
    printf("3. Display\n");
    scanf("%d", &choice);
    switch(choice)
        case 1: printf("Enter the element to be pushed
\n");
                scanf("%d", &element);
                push(stack ,element);
                break;
        case 2: element=pop(stack);
                if(element==-1)
                     printf("Stack Underflow");
                else
                   printf("Popped element is %d
\n", element);
                break;
        case 3: display(stack);
                break;
        default: printf("Invalid choice");
    printf("Do you want to continue:\n");
    fflush(stdin);
    scanf("%c", &ch);
    } while(ch=='y'||ch=='Y');
    return 0;
}
void push(int stack[], int ele)
```

```
if (top==size-1)
        printf("Stack overflow");
    else
    {
        top++;
        stack[top]=ele;
    }
}
int pop(int stack[])
    int popele;
    if(top==-1)
       return -1;
    else
    {
        popele=stack[top];
        top--;
        return (popele);
    }
}
void display(int stack[])
    int i;
    printf("The stack elements\n");
    for(i=top ;i>=0;i--)
        printf("%d\t",stack[i]);
    }
}
```