```c
#include <stdio.h>

int top=-1;

void push(int arr[],int value){

if(top>4){

    printf("\nstack overflow cant insert the element");

}

else{

++top;

arr[top]=value;

printf("\nSuccessfully pushed the element %d",arr[top]);

}

}

void pop(int arr[]){

if(top==-1){

    printf("\nstack underflow no element to pop\n");

}

else{

    printf("\none Element was popped %d\n",arr[top]);

    top--;

}

}

void display(int arr[]){

    printf("The elements are \n");

for(int i=top;i>=0;i--){
```

```c
        printf("%d\n",arr[i]);

    }

}

void main(){

    int stack[5];

    void operations(){

    int choice;

    int value;

    printf("\n Enter your choice \n");

    printf("Enter 1 to push\n Enter 2 to pop\n Enter 3 to display\n Enter 4 for exit\n");

    scanf("%d",&choice);

    switch(choice){

case 1:

    printf("Enter the element to push ");

    scanf("%d",&value);

    push(stack,value);

    operations();

    break;

case 2:

    pop(stack);

    operations();

    break;


case 3:
```

```c
        display(stack);

        operations();

        break;
    case 4:

        printf("You have exited");

        }

}

    operations();

}
```