**WRITE A PROGRAM TO IMPLEMENT STACK USING LINKED LIST USING C LANGUAGE**

#include<stdio.h>  
struct stack  
{  
int info;  
struct stack \*next;  
};  
typedef struct stack node;  
class stlink  
{  
node \*start;  
public:  
stlink()  
{  
start=NULL;  
}  
void display(void);  
void push(int);  
int pop(void);  
};  
void stlink::push(int term)  
{  
node \*p,\*s;  
s=start;  
if(s==NULL||s!=NULL)  
{  
p=(node \*)malloc(sizeof(node));  
p->info=term;  
p->next=s;  
s=p;  
}  
start=s;  
return;  
}  
void stlink::display(void)  
{  
node \*temp;  
if(start==NULL)  
{  
cout << endl<<"UNDERFLOEW";  
}  
temp=start;  
while(temp!=NULL)  
{  
cout << endltemp=temp->next;  
}  
return;  
}  
int stlink::pop(void)  
{  
int term;  
if(start==NULL)  
{  
cout<<"UNDERFLOW";  
return(-1);  
}  
else  
{  
node \*p;  
term=start->info;  
p=start;  
free(start);  
start=p->next;  
return(term);  
}  
}  
int main()  
{  
stlink s1;  
int ch,temp;  
do  
{  
clrscr();  
cout<<"1->Push\n";  
cout<<"2->Display\n";  
cout<<"3->Pop\n";  
cout<<"4->Exit\n";  
cout<<"Enter your choice:";  
cin>>ch;  
switch(ch)  
{  
case'1':  
cout<<"Enter the term to push:";  
cin>>temp;  
s1.push(temp);  
break;  
case'2':  
cout << endl<<"Stack";  
s1.display();  
getch();  
break;  
case'3':  
temp=s1.pop();  
if(temp!=-1)  
cout<<"Popped term is " << temp;  
getch();  
break;  
case'4':  
cout<<"Exiting";  
getch();  
break;  
default:  
cout<<"Invalid choice";  
getch();  
break;  
}  
}while(ch!=4);  
return(0);  
}