```
#include<stdio.h>
#include<conio.h>
#include<alloc.h>
#include<stdlib.h>
/* Node decleration */
struct node
int data;
struct node *link; //to maintain the link other nodes
struct node *top, *temp;
void create();
void push();
void pop();
void display();
/* create function create the head node */
void create()
printf("\nENTER THE FIRST ELEMENT: ");
top=(struct node *)malloc(sizeof(struct node));
scanf("%d",&top->data);
top->link=NULL;
temp=top;
/* display function visit the linked list from top to end */
void display()
top=temp;
              // bring the top to top position
printf("\n");
while(top!=NULL)
printf("%d\n",top->data);
top=top->link; // Now top points the previous node in the list
void push()
printf("\nENTER THE NEXT ELEMENT: ");
top=(struct node *)malloc(sizeof(struct node));
scanf("%d",&top->data);
```

```
top->link=temp;
temp=top;
void pop()
if(temp==NULL)
printf("\nSTACK IS EMPTY\n");
else
top=temp;
printf("\nDELETED ELEMENT IS %d\n",temp->data);
temp=temp->link;
free(top);
void main()
int ch;
clrscr();
while(1)
printf("\n\n 1.CREATE \n 2.PUSH \n 3.POP \n 4.EXIT \n");
printf("\n ENTER YOUR CHOICE : ");
scanf("%d",&ch);
switch(ch)
case 1:
    create();
    display();
    break;
case 2:
    push();
    display();
    break;
case 3:
    pop();
    display();
    break;
case 4:
    exit(0);
```

```
-->>SAMPLE INPUT AND OUTPUT:
 STACK
     CREATE
1.
2.
     PUSH
3.
     POP
4.
     EXIT
ENTER YOUR CHOICE: 1
ENTER THE FIRST ELEMENT: 10
10
 STACK
1.
     CREATE
2.
     PUSH
3.
     POP
     EXIT
4.
ENTER YOUR CHOICE: 2
ENTER THE NEXT ELEMENT: 30
10
30
STACK
     CREATE
1.
2.
     PUSH
3.
     POP
     EXIT
ENTER YOUR CHOICE: 3
DELETED ELEMENT IS 30
STACK
1.
     CREATE
2.
     PUSH
3.
     POP
     EXIT
ENTER YOUR CHOICE: 3
DELETED ELEMENT IS 10
STACK
1.
     CREATE
2.
     PUSH
3.
     POP
```

4.

**EXIT** 

ENTER YOUR CHOICE: 3 STACK IS EMPTY.