```
File
          Edit
                Search
                        Run
                             Compile
                                     Debug
                                             Pro ject
                                                       Options
                                                                  Window
                                                                          Help
                                                                         1=[0]=
                          NTURBOC3NSARANYANSTACKLIN.C
#include<stdio.h>
#include<conio.h>
#include<stdlib.h>
struct stack
int data:
struct stack *next;
*top=NULL, *temp;
int main()
int c:
clrscr():
while(1)
printf("\nMain Menu\n");
printf("\n1.Push\n");
printf("\n2.Pop\n");
printf("\n3.Display\n");
printf("\n4.exit\n");
printf("\n enter the choice");
      = 1:1 ====
        FZ Save F3 Open
                           Alt-F9 Compile
                                            F9 Make
                                                     F10 Menu
F1 Help
```

```
File
        Edit
                Search Run
                             Compile Debug Project
                                                     Options
                                                                 Window
                                                                        Help
                         \TURBOC3\SARANYA\STACKLIN.C =
                                                                        1=[0]:
printf("\n enter the choice");
scanf ("zd",&c);
switch(c)
case 1: push();
       break:
case 2: pop();
       break:
case 3: display();
        break:
case 4: exit(1):
        break:
default :printf("wrong");
push()
struct stack *temp;
int item:
temp=(struct stack*)malloc(sizeof(struct stack));
       41:1 ---
F1 Help F2 Save F3 Open Alt-F9 Compile F9 Make
                                                   F10 Menu
```

```
File
         Edit
                Search Run
                             Compile Debug Project
                                                       Options
                                                                   Window
                                                                           Help
                                                                          1=[0]:
                          NTURBOC3NSARANYANSTACKLIN.C
temp=(struct stack*)malloc(sizeof(struct stack));
printf("\n insert element on to the stack");
scanf ("xd", &item);
temp->data=item;
temp->next=top;
top=item:
return:
pop()
struct stack *ptr;
if (top==NULL)
printf("stack is empty");
else
temp=top;
printf("\n popped item is >d \n:",temp->data);
top=top->next;
free(temp);
return:
     = 61:1 <del>----</del>
                                            F9 Make
                                                     F10 Menu
F1 Help F2 Save F3 Open Alt-F9 Compile
```

```
Options
    File
          Edit
                Search
                        Run
                             Compile
                                     Debug Project
                                                                  Window
                                                                          Help
                                                                         1=[]]=
                         \TURBOC3\SARANYA\STACKLIN.C =
display()
{
int i;
struct stack *ptr;
ptr=top;
if (top==NULL)
printf("stack is empty");
else
printf("stack elements are:\n");
while(ptr!=NULL)
printf("xd\n ",ptr->data);
ptr=ptr->next;
return:
       83:1 ==
F1 Help
        F2 Save F3 Open
                          Alt-F9 Compile
                                          F9 Make
                                                    F10 Menu
```

Main Menu

- 1.Push
- 2.Pop
- 3.Display
- 4.exit

enter the choice 2 stack is empty Main Menu

- 1.Push
- 2.Pop
- 3.Display
- 4.exit

enter the choice_

Program no: 7 Program to implement singly linked list Program #Include 25+do. hs # Enclude & Conio. hs # Proclade (Std10. h) Struet stack Fort deta; struct stack ment; # top = NULL , # temp ; int maines Etat () clusines; while (1) | minttl " (main mones ("); prient ("In 1. push"); postote las pop ");

```
pminti (" n3. Display (n");
pounticular. enitla");
prosente " (nenter the chosce ");
scant (" 40d", 80);
Saltch CCO
 Case !! push ();
        break;
case 2: poper;
        break;
case 3: display ();
      break;
case 4: enit (1);
    break;
default: pmentil "Wring of");
 pushes
  Struct stack attemp;
   Int doogram item,
```

temp = (struct stack x) malloc (size of (struct stack)); printi ("In insert element on to the stuck!"); scant ("yod", & item); temp -> data = Item; temp- nent = top; top = item; return; popis Shruet stack *ptv; if (top = = NULL) partotel " stack is emply "); Lengo - Lopi, priente " In popped Item is % In: ", temp- > data); dop = dop - nent; Free Clemps; return; desplay ()

fort to struct stack optvi ptr = top; if Ctop = - NULL) jmin He" stack is empfy"); ponente "stack elements are: ln"); while (plr ! = NULL) pmintf(" %dln", plr ->data); pdr = pdr - nent; Ne fun ;

Main mean

1. push

2. pop

3. Display

4. ent.

Stade is empty.

main menu

1. push

4- /20/

3. Display

3. enof

enter the chaire:

insert the element on to the stack: 10.