```
#include<stdio.h>
#include<malloc.h>
void push();
void pop();
void display();
void exit();
struct node
  int data;
  struct node *next;
}*top=NULL;
int main()
{
  int choice;
  printf("\nSTACK OPERATIONS USING LINKED LIST");
  printf("\n----");
  printf("\n 1.PUSH\n 2.POP\n 3.DISPLAY\n 4.EXIT");
  while(1)
  {
    printf("\nEnter the Choice:");
```

```
scanf("%d",&choice);
switch(choice)
  case 1:
    push();
    break;
  case 2:
    pop();
    break;
  case 3:
    display();
    break;
  case 4:
```

```
exit(1);
      }
      default:
         printf ("\nPlease Enter a Valid
Choice(1/2/3/4)");
void push()
{
  struct node *p;
  int pushedelement;
  p=(struct node *)malloc(sizeof(struct node));
  printf(" Enter a value to be pushed in stack:");
  scanf("%d",&pushedelement);
  p->data=pushedelement;
  p->next=top;
```

```
top=p;
}
void pop()
{
  struct node *p;
  if(top==NULL)
    printf("Stack is empty");
  else
    p=top;
    printf("Popped element is %d",p->data);
    top=top->next;
    free(p);
void display()
{
  struct node *q;
  q=top;
  if(top==NULL)
```

```
printf("Stack is empty");
else
{
    printf("Stack element is\n");
    while(q!=NULL)
    {
       printf("%d\n",q->data);
       q=q->next;
    }
}
```