STACK USING LINKED LIST:

```c
#include<stdio.h>
#include<stdlib.h>
struct node{
    int d;
    struct node *next;
};
struct node *head=NULL;
void push(int data){
    struct node *p=(struct node*) malloc(sizeof(struct node));
    if (p==NULL) {
    printf("Stack Overflow.\n");
    return;
  }
    p->d=data;
    p->next=head;
    head=p;
    printf("Element is pushed.\n");
}
void pop(){
    struct node *p=head;
    if (p==NULL) {
    printf("Stack Overflow.\n");
    return;
  }
    head=p->next;
    free(p);
```

```c
        printf("Element is popped.\n");
}
void display(){
        if (head==NULL){
    printf("Stack is empty\n");
    return;
  }
        printf("STACK\n");
        struct node *p=head;
        while (p!=NULL) {
    printf("%d\n",p->d);
    p=p->next;
  }
}
int main(){
        int choice,val;
        while(1){
                printf("STACK OPERATION:-\n");
                printf("1.PUSH\n");
                printf("2.POP\n");
                printf("3.DISPLAY\n");
                printf("4.EXIT\n");
                printf("enter the choice:");
                scanf("%d",&choice);
                switch(choice){
                        case 1:
                                printf("Enter the value to push in the stack:");
```

```c
            scanf("%d",&val);
            push(val);
            break;
        case 2:
            pop();
            break;
        case 3:
            display();
            break;
        case 4:
            printf("Exit\n");
    exit(0);
  default:
            printf("Invalid choice.\n");
        }
    }
    return 0;
}
```

```
STACK OPERATION:-
1.PUSH
2.POP
3.DISPLAY
4.EXIT
enter the choice:1
Enter the value to push in the stack:1
Element is pushed.
STACK OPERATION:-
1.PUSH
2.POP
3.DISPLAY
4.EXIT
enter the choice:2
Element is popped.
STACK OPERATION:-
1.PUSH
2.POP
3.DISPLAY
4.EXIT
enter the choice:3
Stack is empty
STACK OPERATION:-
1.PUSH
2.POP
3.DISPLAY
4.EXIT
enter the choice:1
Enter the value to push in the stack:2
Element is pushed.
STACK OPERATION:-
1.PUSH
2.POP
3.DISPLAY
4.EXIT
enter the choice:1
Enter the value to push in the stack:4
Element is pushed.
STACK OPERATION:-
1.PUSH
2.POP
```