

Stack using LL

```

#include <stdio.h>
#include <stdlib.h>

void push();
void pop();
void display();
struct node
{
    int data;
    struct node *next;
};
struct node *top = NULL;

```

```

int main()
{
    int choice;
    printf ("Stack Implementation using LL");
    do
    {
        printf ("1. Push, 2. Display, 3. Pop, 4. Exit");
        printf ("Enter choice:");
        scanf ("%d", &choice);
        switch (choice)
        {
            case 1: push(); break;
            case 2: display(); break;
            case 3: pop(); break;
            case 4: exit(0);
        }
    }
}

```

```
} write (char != '\n');  
}
```

```
void push()
```

```
{ int i;ter;
```

```
struct node *newnode;
```

```
printf ("Enter the element ");
```

```
scanf ("%d" & i;ter);
```

```
newnode = (struct node *) malloc (sizeof (struct node));
```

```
newnode->data = i;ter;
```

```
newnode->next = NULL;
```

```
if (top == NULL)
```

```
top = newnode;
```

```
else
```

```
newnode->next = top;
```

```
top = newnode;
```

```
}
```

```
void pop()
```

```
{ if (top == NULL)
```

```
printf ("Stack is empty");
```

```
else
```

```
{
```

```
printf ("Element popped is %d", top->data);
```

```
top = top->next;
```

```
}
```

```
void display()
```

```
struct node *temp;
```

```
temp = top;
```

```
if (top == NULL)
```

```
printf ("Stack is empty");  
while (temp != NULL)  
{
```

```
printf ("%d", temp->data);  
temp = temp->next;
```

```
}  
}
```