Lab-7

Date __/__/__
Page
Puffin

```
#include <stdio.h>
struct node
{
int data;
struct node * next;
};
struct node *head=NULL;
int length=0;
void inend (int ele)
{
 struct node * newnode, * temp;
newnode = (struct node*) malloc (sizeof(struct node));
newnode → data = ~~next~~ ele;
newnode → next = NULL;
if (head == NULL)
{
 head = newnode;
length = 1;
}
else
{
temp = (struct node*) malloc (sizeof (struct node));
temp → next = newnode;
length++;
}
}
void infro (int ele, int pos)
{
if (pos==1)
```

```
infro(ele);
else if (pos>=length)
 inend(ele);
else
{
struct node * inst;
inst = (struct node*) malloc (sizeof (struct node));
struct node *temp;
temp = (struct node*) malloc (sizeof (struct node));
 temp=head;
 for (int i=1; i<pos-1; i++)
{
 temp=temp→next;
}
inst→data=ele;
int→next=temp→next;
temp→next=int;
length++;
}
3
void del (int ele)
{
struct node * temp, *del;
temp=(struct node*)malloc (sizeof (struct node));
del=(struct node*)malloc (sizeof (struct node));
del=NULL;
if (head→data==ele)
{
 del=head;
```

```
head = head -> next;
del -> next = NULL;
}
else
{
temp = head;
while (temp -> next != NULL)
{
 if (temp -> next -> data == ele)
{
del = temp -> next;
temp -> next = del -> next;
del -> next = NULL;
length --;
break;
}
else
{
  temp = temp -> next;
}
}
}
if (del == NULL)
{
printf ("\n Element not found.\n");
}
}
void display()
{
```

```
struct node *temp;
temp=(struct node*) malloc (sizeof(struct node));
temp = head;
if (temp==NULL)
{
printf("\n List is empty \n");
}
else
{
printf("\n The contents of the list are: \n");
while (temp!=NULL)
{
~~while~~ (printf("%d\n", temp->data);
temp = temp->next;
}
}
}
```