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#include<stdio.h>
#include<conio.h>
void create();
void insert();
void delet();
void traverse();
struct node
{
int data;
struct node *link;
}*header,*neww,*ptr,*ptr1;
void main()
{
int n;
system("cls");
header->data=NULL;
header = NULL;
header=(struct node *)malloc(sizeof(struct node));
while(1)
printf("\nEnter choice 1.Create, 2.Insert, 3.Delete, 4.Traversal");
scanf("%d",&n);
switch(n)
{
case 1:create();
                  break;
case 2:insert(); break;
case 3:delet();
                 break;
case 4:traverse(); break;
default:exit(0);
}
//getch();
void create()
int x;
neww=(struct node *)malloc(sizeof(struct node));
printf("Enter data:");
scanf("%d",&x);
if(header->link==NULL)
header->link=neww;
neww->data=x;
neww->link=NULL;
}
else
{
ptr=header;
```

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while(ptr->link!=NULL)
       ptr=ptr->link;
neww->link=ptr->link;
neww->data=x;
ptr->link=neww;
}
void insert()
int pos,x,key;
printf("Enter position 1.Begin,2.End,3.Any");
scanf("%d",&pos);
printf("Enter data to insert:");
scanf("%d",&x);
neww=(struct node *)malloc(sizeof(struct node));
ptr=header;
if(pos==1)
{
       neww->link=header->link;
       neww->data=x;
       header->link=neww;
}
else if(pos==2)
       while(ptr->link!=NULL)
       ptr=ptr->link;
       neww->link=ptr->link;
       neww->data=x;
       ptr->link=neww;
}
else if(pos==3)
printf("Enter key");
scanf("%d",&key);
       while(ptr->link!=NULL && ptr->data!=key)
       {
       ptr=ptr->link;
       if(ptr->link==NULL)
       printf("key not found");
       else
       {
```

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neww->link=ptr->link;
       neww->data=x;
       ptr->link=neww;
}
void delet()
{
int x,pos;
printf("Enter position 1.Begin, 2.End, 3.Any");
scanf("%d",&pos);
if(header->link==NULL)
{
printf("Linked List is Empty");
else if(pos==1)
{
ptr=header->link;
header->link=ptr->link;
printf("Deleted node is %d",ptr->data);
}
else if(pos==2)
ptr=header;
       while(ptr->link!=NULL)
       ptr1=ptr;
       ptr=ptr->link;
ptr1->link=NULL;
printf("Deleted node is %d",ptr->data);
else if(pos==3)
printf("Enter data to delete:");
scanf("%d",&x);
       while(ptr->link!=NULL && ptr->data!=x)
       ptr1=ptr;
       ptr=ptr->link;
       if(ptr->link==NULL)
       printf("Key not found in list");
       }
       else
       ptr1->link=ptr->link;
```

```
printf("Deleted node is %d",ptr->data);
}
else
{
printf("Invalid position");
}

void traverse()
{
printf("Elements in the list are:");
ptr=header;
while(ptr->link!=NULL)
{
ptr=ptr->link;
printf("%d ",ptr->data);
}
}
```