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#include<stdio
.h>

#include<stdlib.h>

#include<malloc.h>


void create();
void display();
void insert_beg();
void insert_end();
void insert_pos();


struct Node
{
    int data;
    struct Node *link;
};

typedef struct Node node;
node *start=NULL;


void main()
{
    int ch,ch1;
    while(1)
    {
        printf("1.Create 2.Insert 3.Display 4.Exit\n");
        printf("Enter your choice:\n");
        scanf("%d",&ch);
        switch(ch)
        {
            case 1:

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        create();

        break;

    case 2:

        printf("Insert at 1.Beginning 2.At any position
3.End\n");
        scanf("%d",&ch1);
        if(ch1==1)

            insert_beg();
        else if(ch1==2)

            insert_pos();
        else if (ch1==3)

            insert_end();
        else

            printf("Invalid choice\n");

        break;

    case 3:

        display();

        break;

    case 4:

        exit(1);

    default:

        printf("Invalid choice\n");

    }

}

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void create()
{
    int c;

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node *new,*curr;

start=(node *) malloc(sizeof(node));

curr=start;

printf("Enter element\n");

scanf("%d",&start->data);

while(1)
{
    printf("Do you want to add another element(1 for Yes / 0
for No)\n");
    scanf("%d",&c);

    if(c==1)
    {
        new=(node *) malloc(sizeof(node));

        printf("Enter element\n");

        scanf("%d",&new->data);

        curr->link = new;

        curr=new;
    }
    else
    {
        curr->link=NULL;

        break;
    }
}
}

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void display()
{
    node *temp;

    if(start==NULL)
    {
        printf("Linked list is empty\n");
    }
}

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        return;

    }

    temp=start;
    while (temp!=NULL)
    {
        printf("%d\n",temp->data);
        temp = temp->link;
    }
}

void insert_beg()
{
    node *new;

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

    void create();
    void display();
    void insert_beg();
    void insert_end();
    void insert_pos();

    struct Node
    {
        int data;
        struct Node *link;
    };

    typedef struct Node node;
    node *start=NULL;

```

```

void main()
{
    int ch,ch1;
    while(1)
    {
        printf("1.Create 2.Insert 3.Display 4.Exit\n");
        printf("Enter your choice:\n");
        scanf("%d",&ch);
        switch(ch)
        {
            case 1:
                create();
                break;
            case 2:
                printf("Insert at 1.Beginning 2.At any position
3.End\n");
                scanf("%d",&ch1);
                if(ch1==1)
                    insert_beg();
                else if(ch1==2)
                    insert_pos();
                else if (ch1==3)
                    insert_end();
                else
                    printf("Invalid choice\n");

                break;

            case 3:
                display();

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        break;

    case 4:

        exit(1);

    default:

        printf("Invalid choice\n");

    }

}

}

void create()

{

    int c;

    node *new,*curr;

    start=(node *) malloc(sizeof(node));

    curr=start;

    printf("Enter element\n");

    scanf("%d",&start->data);

    while(1)

    {

        printf("Do you want to add another element(1 for Yes / 0
for No)\n");

        scanf("%d",&c);

        if(c==1)

        {

            new=(node *) malloc(sizeof(node));

            printf("Enter element\n");

            scanf("%d",&new->data);

            curr->link = new;

            curr=new;

        }

        else

        {

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        curr->link=NULL;

        break;
    }
}

```

```

void display()
{
    node *temp;

    if(start==NULL)
    {
        printf("Linked list is empty\n");
        return;
    }

    temp=start;
    while(temp!=NULL)
    {
        printf("%d\n",temp->data);
        temp = temp->link;
    }
}

```

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void insert_beg()
{
    node *new;

    new=(node *) malloc(sizeof(node));

    printf("Enter element\n");

    scanf("%d",&new->data);

    if(start==NULL)
    {
        start=new;
    }
}

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        new->link=NULL;

        return;

    }

    new->link=start;

    start=new;

}

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void insert_end()
{
    node *new,*temp;

    new=(node *)malloc(sizeof(node));

    printf("Enter element\n");

    scanf("%d",&new->data);

    if(start==NULL)
    {
        start=new;

        new->link=NULL;

        return;

    }

    temp=start;

    while(temp->link!=NULL)
    {

        temp=temp->link;

    }

    temp->link=new;

    new->link=NULL;

}

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void insert_pos()
{
    int pos;

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node *new,*temp;

new=(node *)malloc(sizeof(node));

printf("Enter element\n");

scanf("%d",&new->data);

printf("Enter position\n");

scanf("%d",&pos);

if(pos==1)

{

    new->link=start;

    start=new;

    return;

}

int i=1;

temp=start;

while(i<pos-1 && temp->link!=NULL)

{

    temp=temp->link;

    i++;

}

if(i==(pos-1))

{

    new->link=temp->link;

    temp->link=new;

    return;

}

if(temp==NULL)

{

    printf("Invalid position");

}

}

```