

```

#include<conio.h>

#include<stdio.h>

struct node
{ int num;
  struct node *next;
  struct node *prev; };

struct node *head=NULL,*temp, *first, *last;

int info;

void display();

void insert_at_begin();


void main() {
int i; clrscr();

printf("\nprogram for insertion in a doubly linked list :\n");

do {
printf("\nEnter your choice :\n");
printf("\n1.Insert element at the begin  of the linkedlist :");
printf("\n2.display"); printf("\n3.Exit\n");

scanf("%d",&i);

switch(i) {
case 1: insert_at_begin();

break;

case 2:

display();

```

```
break; case 3: exit(0);
```

```
}
```

```
} while(1);
```

```
getch();
```

```
}
```

```
void display() {
```

```
    struct node *ptr; ptr=head;
```

```
    printf("\nStatus of the doubly linked list is as follows :\n");
```

```
    while(ptr!=NULL)          /* traversing the linked list */
```

```
    { printf("\n%d",ptr->num); ptr=ptr->next; }
```

```
}
```

```
void insert_at_begin() {
```

```
    printf("\nEnter the value which do you want to insert at begining\n");
```

```
    scanf("%d",&info);
```

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

```
    //(struct node)malloc(sizeof(NODE));
```

```
    temp->num=info; temp->next=NULL;
```

```
    temp->prev=NULL;
```

```
    if(head==NULL) { head=temp; last=temp; }
```

```
    else { temp->next=head; head->prev=temp;
```

```
    temp->prev=NULL; head=temp; } }
```