Singly Linked List

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

struct node{
   int data;
   struct node * next;
};

int main() {

   //Create a Linked list with 5 item

   struct node *temp,*head,*pre,*q;
   int val;
   temp=(struct node*)malloc(sizeof(struct node));
   printf("Enter Data item 1 : ");
   scanf("%d",&val);
   temp->data=val;
   temp->next=NULL;
   head=temp;

   for( int x=2;x<6;x++){
      pre=temp;
      temp=(struct node*)malloc(sizeof(struct node));
      printf("Enter Data item %d : ",x);
      scanf("%d",&val);
      temp->data=val;
      temp->next=NULL;
      pre->next=temp;
   }
   printf("\n\n");

   //Display a Linked List

   q=head;
   while(q!=NULL){
      printf("%d ",q->data);
      q=q->next;
   }
   return 0;
}
```

Doubly Linked List

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

struct node{
   struct node * back;
   int data;
   struct node * next;
};

int main() {

   //Create a Linked list with 5 item

   struct node *temp,*head,*pre,*last,*q;
   int val;

   temp=(struct node*)malloc(sizeof(struct node));
   printf("Enter Data item 1 : ");
   scanf("%d",&val);
   temp->back=NULL;
   temp->data=val;
   temp->next=NULL;
   head=temp;

   for( int x=2;x<6;x++){
      pre=temp;
      temp=(struct node*)malloc(sizeof(struct node));
      printf("Enter Data item %d : ",x);
      scanf("%d",&val);
      temp->back=pre;
      temp->data=val;
      temp->next=NULL;
      pre->next=temp;
   }
   last=temp;
   printf("\n\n");

   //Display a Linked List

   q=head;
   while(q!=NULL){
      printf("%d ",q->data);
      q=q->next;
   }
   printf("\n\n");


   //Display a Riversed Linked List

   q=last;
   while(q!=NULL){
      printf("%d ",q->data);
      q=q->back;
   }

   return 0;
}
```