**Question 1**

/\*Write a program for creating and displaying link list\*/

#include<stdio.h>

#include<stdlib.h>

struct node

{

int data1;

float data2;

struct node \*next;

}\*start;

void create\_LL(int);

void display\_LL();

int main()

{

int n;

printf("Enter Number of node:\n");

scanf("%d",&n);

create\_LL(n);

printf("\nLink list is:\n");

display\_LL();

return 0;

}

void create\_LL(int n)

{

struct node \*newnode,\*temp;

int i,d1;

float d2;

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

if(start==NULL)

{

printf("Memory not allocated");

}

else

{

printf("Enter first 2 data of node 1:\n");

scanf("%d%f",&d1,&d2);

start->data1=d1;

start->data2=d2;

start->next=NULL;

temp=start;

}

for(i=2;i<=n;i++)

{

newnode=(struct node\*)malloc(sizeof(struct node));

if(newnode==NULL)

{

printf("Memory not allocated.");

break;

}

else

{

printf("\nEnter the values of node %d:\n",i);

scanf("%d%f",&d1,&d2);

newnode->data1=d1;

newnode->data2=d2;

newnode->next=NULL;

temp->next=newnode;

temp=temp->next;

}

}printf("Link list created successfully");

}

void display\_LL()

{

struct node \*temp;

temp=start;

while(temp!=NULL)

{

printf("\t->%d %f",temp->data1,temp->data2);

temp=temp->next;

}

}

**Question 2**

/\*Write a program for inserting a new node at first in link list\*/

#include<stdio.h>

#include<stdlib.h>

struct node

{

int data1;

float data2;

struct node \*next;

}\*start=NULL;

void create\_LL(int);

void display\_LL();

void insert\_first(int,float);

int main()

{

int n,g;

float h;

printf("Enter Number of node:\n");

scanf("%d",&n);

create\_LL(n);

printf("\nLink list is:\n");

display\_LL();

printf("\nEnter values of new node:\n");

scanf("%d%f",&g,&h);

insert\_first(g,h);

printf("\nLink list after insert:\n");

display\_LL();

return 0;

}

void create\_LL(int n)

{

struct node \*newnode,\*temp;

int i,d1;

float d2;

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

if(start==NULL)

{

printf("Memory not allocated");

}

else

{

printf("\nEnter first 2 data of node 1:\n");

scanf("%d%f",&d1,&d2);

start->data1=d1;

start->data2=d2;

start->next=NULL;

temp=start;

}

for(i=2;i<=n;i++)

{

newnode=(struct node\*)malloc(sizeof(struct node));

if(newnode==NULL)

{

printf("Memory not allocated.");

break;

}

else

{

printf("\nEnter the values of node %d:\n",i);

scanf("%d%f",&d1,&d2);

newnode->data1=d1;

newnode->data2=d2;

newnode->next=NULL;

temp->next=newnode;

temp=temp->next;

}

}printf("Link list created successfully");

}

void display\_LL()

{

struct node \*temp;

temp=start;

while(temp!=NULL)

{

printf("\t->%d %f",temp->data1,temp->data2);

temp=temp->next;

}

}

void insert\_first(int g,float h)

{

struct node \*newnode;

newnode=(struct node\*)malloc(sizeof(struct node));

if(newnode==NULL)

{

printf("Memory not allocated.");

exit(0);

}

else

{

newnode->data1=g;

newnode->data2=h;

newnode->next=start;

start=newnode;

}

}