//Doubly linearLinked List Insertion

//20UET009

#include<stdio.h>

#include<stdlib.h>

int main()

{

int c,ch,pos,count,value;

struct node

{

int data;

struct node \*next;

struct node \*prev;

};

struct node \*head,\*newnode,\*temp;

temp=head=NULL;

while(1)

{

printf("do you have a node enter 1 \n");

scanf("%d",&c);

if(c==1)

{

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

printf("\nenter node data\n");

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

newnode->next=NULL;

newnode->prev=NULL;

printf("insertion operation\n");

printf("begining:1 last:2 display:3\n");

scanf("%d",&ch);

switch(ch)

{

case 1:printf("insertion at begining\n");

head->prev=newnode;

newnode->next=head;

head=newnode;

break;

case 2:printf("\ninsertion at last\n");

temp=head;

while(temp->next!=NULL)

{

temp=temp->next;

}

temp->next=newnode;

newnode->prev=temp;

break;

case 3:printf("\ndisplay\n");

temp=head;

while(temp!=NULL)

{

printf("%d ",temp->data);

temp=temp->next; }

break;

default:

printf("enter valid choice\n");

}

}

else

{

break;

}

}

return 0;

}

