PROGRAM : 01

#include<iostream>

#include<stdlib.h>

#include<string.h>

Using namespace std;

Struct node

{ char name[20];

Node \*next;

Node \*down;

Int flag;

};

Class Gll

{ char ch[20]; int n,I;

Node \*head=NULL,\*temp=NULL,\*t1=NULL,\*t2=NULL;

Public:

Node \*create();

Void insertb();

Void insertc();

Void inserts();

Void insertss();

Void displayb();

};

Node \*Gll::create()

{

Node \*p=new(struct node);

p->next=NULL;

p->down=NULL;

p->flag=0;

cout<<”\n enter the name”;

cin>>p->name;

return p;

}

Void Gll::insertb()

{ If(head==NULL)

{ t1=create();

Head=t1;

}

Else

{

Cout<<”\n book exist”;}

} Void Gll::insertc()

{

If(head==NULL)

{

Cout<<”\n there is no book”;

}

Else

{ cout<<”\n how many chapters you want to insert”;

Cin>>n;

For(i=0;i<n;i++)

{

T1=create();

If(head->flag==0)

{ head->down=t1; head->flag=1; }

Else

{ temp=head;

Temp=temp->down;

While(temp->next!=NULL)

Temp=temp->next;

Temp->next=t1;

}

}

}

}

Void Gll::inserts()

{

If(head==NULL)

{

Cout<<”\n there is no book”;

}

Else

{ cout<<”\n Enter the name of chapter on which you want to enter the section”;

Cin>>ch;

Temp=head;

If(temp->flag==0)

{ cout<<”\n there are no chapters on in book”;

}

Else

{ temp=temp->down ;

While(temp!=NULL)

{

If(!strcmp(ch,temp->name))

{

Cout<<”\n how many sections you want to enter”;

Cin>>n;

For(i=0;i<n;i++) {

T1=create();

If(temp->flag==0)

{ temp->down=t1;

Temp->flag=1; cout<<”\n\*\*\*\*\*\*”;

T2=temp->down;

}

Else

{ Cout<<”\n#####”;

While(t2->next!=NULL)

{ t2=t2->next; }

T2->next=t1;

}

}

Break; }

Temp=temp->next;}

}

}

}

Void Gll::insertss()

{

If(head==NULL)

{

Cout<<”\n there is no book”;

}

Else

{ cout<<”\n Enter the name of chapter on which you want to enter the section”;

Cin>>ch;

Temp=head;

If(temp->flag==0)

{ cout<<”\n there are no chapters on in book”;

} Else

{ temp=temp->down;

While(temp!=NULL)

{

If(!strcmp(ch,temp->name))

{

Cout<<”\n enter name of section in which you want to enter the sub section”;

Cin>>ch;

If(temp->flag==0)

{ cout<<”\n there are no sections “;

Else

{ temp=temp->down;

While(temp!=NULL)

{

If(!strcmp(ch,temp->name))

{

Cout<<”\n how many subsections you want to enter”;

Cin>>n;

For(i=0;i<n;i++)

}T1=create();

If(temp->flag==0)

{ temp->down=t1;

Temp->flag=1; cout<<”\n\*\*\*\*\*\*”;

T2=temp->down;

}

Else

{

Cout<<”\n#####”;

While(t2->next!=NULL)

{ t2=t2->next; }

T2->next=t1;

}

}

Break;

} temp=temp->next;

}

}

}

Temp=temp->next;

}

}

}

}

Void Gll::displayb()

{

If(head==NULL)

{ cout<<”\n book not exist”;

}

Else

{

Temp=head;

Cout<<”\n NAME OF BOOK: “<<temp->name;

If(temp->flag==1)

{

Temp=temp->down;

While(temp!=NULL)

{ cout<<”\n\t\tNAME OF CHAPTER: “<<temp->name;

T1=temp;

If(t1->flag==1)

{ t1=t1->dtemp

While(t1!=NULL)

{ cout<<”\n\t\t\t\tNAME OF SECTION: “<<t1->name;

T2=t1;

If(t2->flag==1)

{ t2=t2->down;

While(t2!=NULL)

{ cout<<”\n\t\t\t\t\t\tNAME OF SUBSECTION: “<<t2->name;

T2=t2->next; }

} T1=t1->next;

} }

Temp=temp->next;

}

}

}

}

Int main()

{ Gll g; int x;

While(1)

{ cout<<”\n\n enter your choice”;

Cout<<”\n 1.insert book”;

Cout<<”\n 2.insert chapter”;

Cout<<”\n 3.insert section”;

Cout<<”\n 4.insert subsection”;

Cout<<”\n 5.display book”;

Cout<<”\n 6.exit”;

Cin>>x;

Switch(x)

{ case 1: g.insertb();

Break;

Case 2: g.insertc();

Break;

Case 3: g.inserts();

Break;

Case 4: g.insertss();

Break;

Case 5: g.displayb();

Break;

Case 6: exit(0);

}

}

Return 0;

}





