```
#include<iostream>
#include<stdlib.h>
using namespace std;
struct node
char label[60];
int chcount;
node *child[50];
}*root;
class general
public:
void insert();
void display();
general()
root == NULL;
};
void general::insert()
{
```

```
int secount;
root = new node();
cout<<"Enter the name of book:"<<endl;
cin>>root->label;
cout<<"Enter the total number of chapters in book:"<<endl;
cin>>root->chcount;
for(int i=0;i<root->chcount;i++)
{
root->child[i] = new node();
cout<<"Enter the name of chapters:"<<endl;
cin>>root->child[i]->label;
cout<<"Enter the number of sections:"<<endl;
cin>>root->child[i]->chcount;
for(int j=0;j<root->child[i]->chcount;j++)
{
root->child[i]->child[j] = new node();
cout<<"Enter the name of section:"<<endl;
cin>>root->child[i]->child[j]->label;
cout<<"Enter the number of sub sections:"<<endl;
cin>>root->child[i]->child[j]->chcount;
for(int k=0; k<root->child[i]->child[j]->chcount; k++)
{
```

```
root->child[i]->child[j]->child[k] = new node();
cout<<"Enter the name of sub section:"<<endl;
cin>>root->child[i]->child[j]->child[k]->label;
}
}
}
}
void general::display()
if(root != NULL)
cout<<"****** Hierarchy of Book ******** <<endl;
cout<<"Book Name is: "<<root->label<<endl;</pre>
for(int i=0; i<root->chcount; i++)
{
cout<<"_"<<root->child[i]->label<<endl;</pre>
for(int j=0; j<root->child[i]->chcount; j++)
{
cout<<"___"<<root->child[i]->child[j]->label<<endl;</pre>
for(int k=0; k<root->child[i]->child[j]->chcount; k++)
{
cout << "\_\_\_" << root -> child[i] -> child[j] -> child[k] -> label << endl;
```

```
}
}
int main()
{
general g;
int ch;
do
cout<<"~~~~ MENU ~~~~"<<endl;
cout<<"1. Insert."<<endl;
cout<<"2. Display."<<endl;
cout<<"Enter the choice:"<<endl;</pre>
cin>>ch;
switch(ch)
{
case 1: g.insert();
break;
case 2: g.display();
break;
```

```
}
while(ch<3);
}</pre>
```