**Code**

#include <iostream>

#include <string>

using namespace std;

struct node {

string label;

int count;

node \*child[50];

} \*root;

class Tree {

public:

void insert();

void display();

Tree() {

root == NULL;

}

};

void Tree::insert() {

root = new node();

cout <<"\nEnter the name of book: ";

getline(cin >> ws, root->label);

cout <<"Enter the total number of chapters in book: ";

cin >> root->count;

for (int i = 0; i < root->count; i++) {

root->child[i] = new node();

cout <<"\nEnter the name of chapters " << i + 1 << ": ";

getline(cin >> ws, root->child[i]->label);

cout <<"Enter the number of sections: ";

cin >> root->child[i]->count;

for (int j = 0; j < root->child[i]->count; j++) {

root->child[i]->child[j] = new node();

cout <<"\nEnter the name of section " << i + 1 << '.' << j + 1 << ": ";

getline(cin >> ws, root->child[i]->child[j]->label);

cout <<"Enter the number of sub sections: ";

cin >> root->child[i]->child[j]->count;

cout << '\n';

for (int k = 0; k < root->child[i]->child[j]->count; k++) {

root->child[i]->child[j]->child[k] = new node();

cout <<"Enter the name of sub section " << i + 1 << '.' << j + 1 << '.' << k + 1 << ": ";

getline(cin >> ws, root->child[i]->child[j]->child[k]->label);

}

}

}

}

void Tree::display() {

if (root != NULL) {

cout <<"\n\n--------------- Hierarchy of Book ---------------\n\n";

cout <<"Book Name: "<< root->label << endl;

for (int i = 0; i < root->count; i++) {

cout <<"\n> "<< root->child[i]->label << endl;

for (int j = 0; j < root->child[i]->count; j++) {

cout <<"---> "<< root->child[i]->child[j]->label << endl;

for (int k = 0; k < root->child[i]->child[j]->count; k++) {

cout <<"------> "<< root->child[i]->child[j]->child[k]->label << endl;

}

}

}

}

}

int main() {

Tree g;

int ch;

do {

cout <<"\nEnter choice\n1.input 2.display\nChoice [1/2] :";

cin >> ch;

switch (ch) {

case 1:

g.insert();

break;

case 2:

g.display();

break;

}

} while (ch < 3);

return 0;

}