**Module 8**

#include <iostream>

#include <fstream> **Topic 1**

using namespace std;

struct node

{

    int data;

    node \*ll;

    node \*rr;

};

int main()

{

    int LL[50], DATA[50], RL[50];

    node \*ax[50];

    ax[0] = 0;

    ifstream mac;

    mac.open("store.txt");

    int i = 1;

    while (mac >> LL[i])

    {

        char U;

        mac >> U;

        DATA[i] = int(U);

        mac >> RL[i];

        cout << LL[i] << " " << char(DATA[i]) << " " << RL[i] << endl;

        ax[i] = new node();

        i++;

    }

    for (int m = 1; m <= i - 1; m++)

    {

        cout << "Node: " << m << " " << char(DATA[m]) << " " << ax[m] << " " << endl;

        ax[m]->data = DATA[m];

        ax[m]->ll = ax[LL[m]];

        ax[m]->rr = ax[RL[m]];

    }

    for (int m = 1; m < i; m++)

    {

        cout << ax[m]->ll << " " << LL[m] << "      " << char(ax[m]->data) << "     " << RL[m] << " " << ax[m]->rr << endl;

    }

}

2 A 3 **store.txt**

4 B 5

6 C 7

8 D 9

0 F 0

0 G 10

0 H 0

0 I 0

0 J 0

0 K 0