Practical No 7

#include<iostream>

#include<map>

#include<string>

using namespace std;

int main()

{

string state;

int population;

char ans='y';

int choice;

map<string,int>m;

map<string,int>::iterator i;

do

{

cout<<"\n Main Menu";

cout<<"\n1.insert an element";

cout<<"\n2. Display";

cout<<"\n3.Search an state";

cout<<"\n Enter your choie:";

cin>>choice;

switch(choice)

{

case 1:cout<<"\n Enter the name of state:";

cin>>state;

cout<<"\n Enter the population(in Cr):";

cin>>population;

m.insert(pair<string,int>(state,population));

break;

case 2:cout << "State and Populations are: ";

for (i = m.begin(); i != m.end(); i++)

cout <<"[" <<(\*i).first << ", "<<(\*i).second<<"] ";

break;

case 3:cout << "\n Enter the name of state for searching its population: ";

cin >> state;

if(m.count(state)!=0)

cout<<"Population is "<<m.find(state)->second<<"Cr";

else

cout << "State is not present in the list" << endl;

break;

}

cout << "\n Do you want to continue?(y/n): ";

cin >> ans;

} while (ans == 'y' || ans == 'Y');

return 0;

}

OUTPUT:-

Main Menu

1.insert an element

2. Display

3.Search an state

Enter your choie:

1

Enter the name of state:Maharashtra

Enter the population(in Cr):126

Do you want to continue?(y/n): y

Main Menu

1.insert an element

2. Display

3.Search an state

Enter your choie:1

Enter the name of state:Gujarat

Enter the population(in Cr):10

Do you want to continue?(y/n):

Main Menu

1.insert an element

2. Display

3.Search an state

Enter your choie:1

Enter the name of state:Rajasthan

Enter the population(in Cr):20

Do you want to continue?(y/n): y

Main Menu

1.insert an element

2. Display

3.Search an state

Enter your choie:3

Enter the name of state for searching its population: Maharashtra

Population is 126Cr

Do you want to continue?(y/n): y

Main Menu

1.insert an element

2. Display

3.Search an state

Enter your choie:2

State and Populations are: [Gujarat, 10] [Maharashtra, 126] [Rajasthan, 20]

Do you want to continue?(y/n): n

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Process exited after 119 seconds with return value 0

Press any key to continue . . .