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Assignment no-7

Title: To use map associative container.

problem statement:

write a program in cft to use may associative confainer. The keys will be the names of States of the values will be the populations of the states when the program runs, the user is promfed to type the name of a state. The program then looks in the map, using the state name as an index of returns the population of the state.

Prerequoites: oop,

Objective: to learn to une a map associative

Theory:

Map associative Container:

Map associative container are associative containers that store elements in a mapped fashion, element has a key val Each value & a map

No map two mapped values can be have Dame key values.



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Syntax: map: Operator [] This operator is used to the at () tundion, t the to of reference the element present at position given inside the operator. It is position is not in similar be only difference is that ato () tunction throws an out of range exception when the bounds of the size of map, volute this operator causes undefined behaviour. map name [key] parameters: key value mapped to the element to be fetched. Returns! Direct reference to the clement at given key Value, Examples: Input: may mymap; mymap [ai] = 1; mymap [a]; output: Input! map mymap: mymap["abcd"] = 7:





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```
mymap [" abcd"];
output: 7
11 program
 # include < map>
# include ( iostream>
# include & string >
  using namespace std;
   int main ()
 I II map declaration
   map ( int, string > my map;
   11 mapping integers to strings
my map [1] = "Hi";
   mymap[2] = "This".
    mymap[3]="is";
    mymap [4] = "NBN";
    11 using operator IJ to print string
11 mapped to integer 4
    cont << mymap [4];
     return o;
```



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Algorithm: 1. start 2. Give a header file to map associative obtainer. 3. Insert states name so that we get values as population of that state. 4. Vse population map insert () 5. Display the population of states: 6. End. 1/P: Information such as elase as name to map associative container. 0/P: Size of population map: 5 Bazil: 193 million China: 1339 million India: 1187 million Pakistan: 170 Million Pakistan's population is 234 million. Conclusion: Hence, we have successfully studied the concept of map associative container.		
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