

```
/*This programme creates a phonebook usng "map" container and shows how to add/retireve entries to it*/
```

```
#include <iostream>
#include <map>
#include <string>
```

```
using namespace std;
```

```
int main() {
```

```
    /* Creating the phoneBook*/
```

```
    map <string, string> phoneBook; // First is the key datatype, the second is the data
    datatype
```

```
    /* creating entries and inserting them*/
```

```
    using Entry = pair <string, string>; // "pair" is a class used to attach data entry to a
    given key
```

```
    Entry entry1 = { "Bob Geldof", "678901" };
```

```
    phoneBook.insert(entry1);
```

```
    //or
```

```
    phoneBook["Bob Dylan"] = "623520";
```

```
    /* Retriving the entry*/
```

```
    string callNumber; // To save the phone number we want to get from the phonebook
```

```
    string key; // the key used to find the entry
```

```
    cout << "Ente the person's name: " << endl;
```

```
    getline(cin, key); // didn't use "cin >>" beacuse it only reads one word
```

```
    // Check if the entry exists in the phoneBook
```

```
    if (phoneBook.find(key) != phoneBook.end())
```

```
    {
```

```
        callNumber = phoneBook.find(key)->second; // "second" is a member function of the
    class "pair"
```

```
        //or:
```

```
        callNumber = phoneBook[key];
```

```
        cout << "The requested phone number is: " << callNumber << endl;
```

```
    }
```

```
    else
```

```
    {
```

```
        cout << "Entry not found" << endl;
```

```
    };
```

```
    system("pause");
```

```
};
```