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/*This programme shows how smart pointers are used in a code*/


#include<iostream>
#include <memory>
#include <string>
using namespace std;


void main() {


        string* pSong = new string("Nothing on You"); // Raw pointer

        string* pSong2 = new string("Nice for what");

        unique_ptr<string> s_pSong1(new string("Nothing on You")); //Smart unique pointer


        shared_ptr<string> s_pSong2(pSong2); //Casting a raw pointer into a shared pointer

        auto Song3 = s_pSong2; //This is allowed now!

        //s_pSong2 = s_pSong1; This will give an error, why?

        delete pSong, pSong2; // We don't need to do that for s_pSong2

        cout << *s_pSong1 << endl;



        system("pause");

};
```