Philip Pesic

Week 12

November 6 2022

Week 12 Prog 5

Modify the following Program. Convert the following program as per comments

```cpp
//
//  colorPicker.h
//  Week 12 Prog 5
//
//  Created by Pippo Pesic on 11/3/22.
//

#ifndef colorPicker_h
#define colorPicker_h

class colorPicker {

private:

string colorArray[8];

public:

colorPicker() {
```

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// Defalut Consructor assign values to array

// Use 8 assignment statements to assign each color to the color array

colorArray[0] ="Red";

colorArray[1] ="Green";

colorArray[2] ="Purple";

colorArray[3] ="Yellow";

colorArray[4] ="Orange";

colorArray[5] ="Indigo";

colorArray[6] ="Blue";

colorArray[7] ="Gray";

}

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```cpp
void printAllColors() {

// use for loop to print out all colors

for (int i = 0 ;i < 8; i++)

{ cout << colorArray[i] << endl;}

}

string randomColor() {

  srand((unsigned)time(0));

  // pick a random number between 0 and 7

  int i =0;

  i = rand()%7;
```

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```cpp
    return colorArray[i];


}


};


#endif /* colorPicker_h */


//

//  main.cpp

//  Week 12 Prog 5

//

//  Created by Pippo Pesic on 11/3/22.

//


#include <iostream>


using namespace std;


#include <string>
```

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/* srand example */

#include <ctime>

#include <stdio.h>   /* NULL */

#include <stdlib.h>   /* srand, rand */

#include "colorPicker.h"

int main()

{

colorPicker P;

//

P.printAllColors();

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cout << "Random Color: " << P.randomColor() << endl;
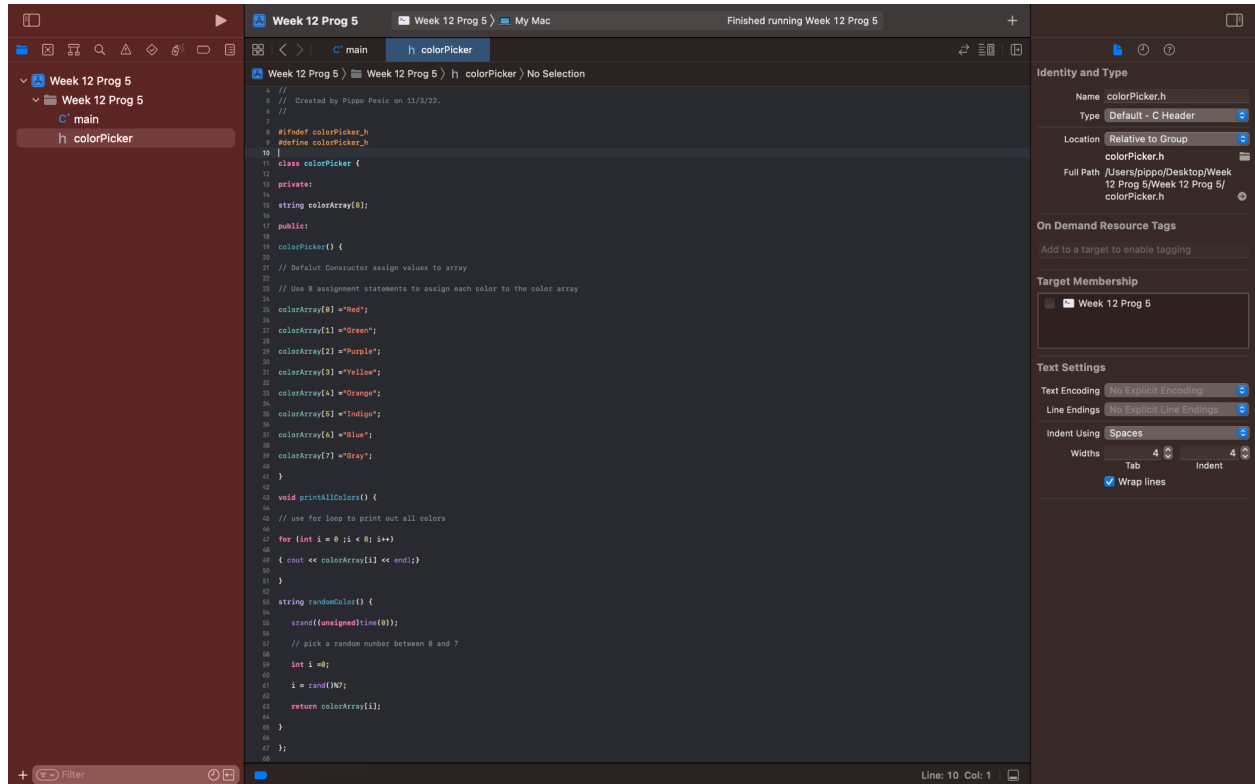
cout << "Philip Pesic 11/6/22" << endl;

return 0;

}

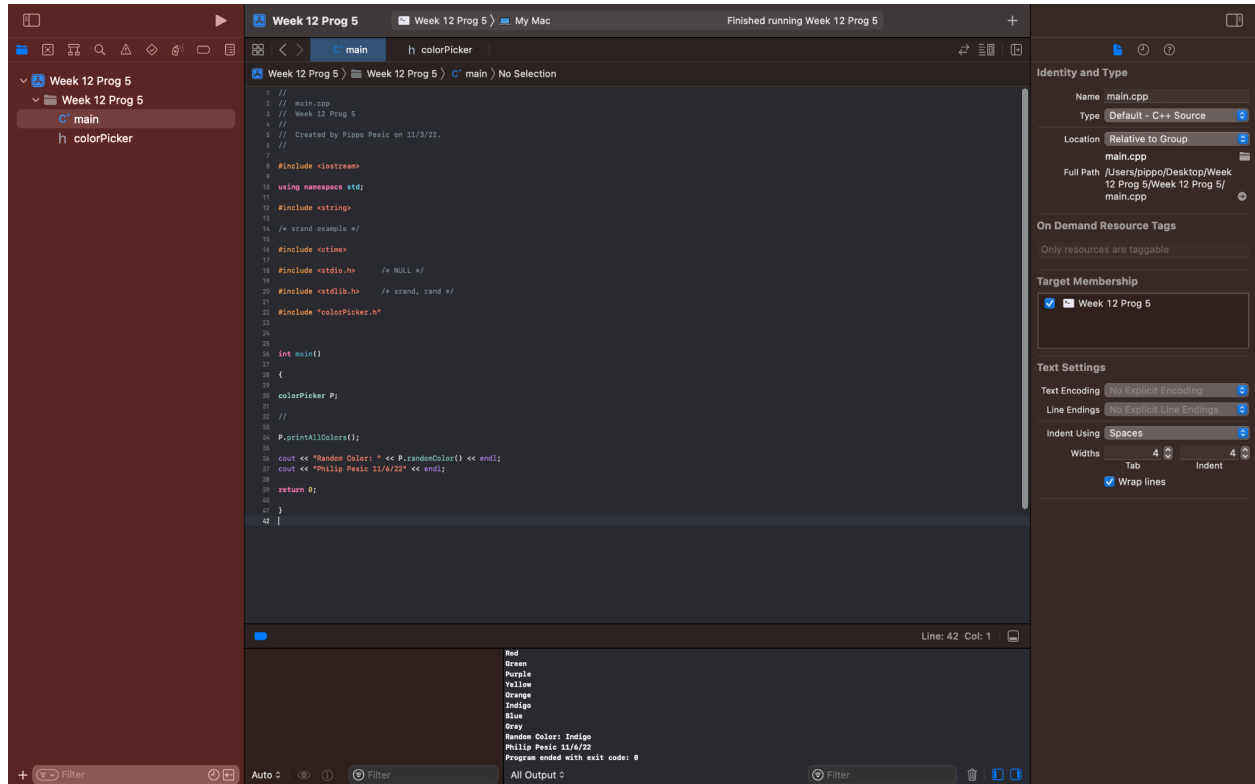Philip Pesic

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I learned: how to separate files into headers and drivers