

Cieran_Hughes

by Cieran Hughes

FILE	12018_CIERAN_HUGHES_CIERAN_HUGHES_183215_2065812845.TXT (3.7K)		
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```
//Cieran Hughes
```

```
//Mike and Tim
```

```
//Exercise 2 - paste code below
```

```
#include <string>
```

```
#include <iostream>
```

```
#include <sstream>
```

```
using namespace std;
```

```
//FORWARD CALLING FUNCTIONS
```

```
double UserEnterRadius();
```

```
int main(int argc, char*argv[])
```

```
{
```

```
    //DECLARING AND INITIALISING VARIABLES
```

```
    stringstream stream;
```

```
    string input = "";
```

```
    double radius = 0;
```

```
    double area = 0;
```

```
    double pi = 3.142;
```

```
    double radiusSquared = 0;
```

```
//MAIN

//Get Radius

radius = UserEnterRadius();


//Working Out Area

radiusSquared = radius * radius;

area = 4 * pi * radiusSquared;


//Output Area

cout << endl << "The area of the circle is: " << endl << area;


//STOP

cin.get();

return 0;

}


double UserEnterRadius()

{

    //DECLARING AND INITIALISING VARIABLES

    stringstream stream;

    string input = "";

    double r = 0;
```

```
//MAIN

cout << "enter the radius of the circle: " << endl;

getline(cin, input);

stream.str(input);

stream >> r;

stream.clear();


return r;
}


//Exercise 3 - paste code below

#include <string>

#include <iostream>

#include <sstream>


using namespace std;


//FORWARD CALLING FUNCTIONS

void EnterCelsius(double celsius[6]);

void ShowCelsius(double celsius[6]);

void ConvertFahrenheit(double celsius[6], double fahrenheit[6]);


int main(int argc, char*argv[])
```

```
{  
  
    //DECLARING AND INITIALISING VARIABLES  
  
    stringstream stream;  
  
    string input = "";  
  
    double celsius[6];  
    double fahrenheit[6];  
  
  
    //MAIN  
  
    EnterCelsius(celsius);  
  
    ShowCelsius(celsius);  
  
    ConvertFahrenheit(celsius, fahrenheit);  
  
  
    //STOP  
  
    cin.get();  
  
    return 0;  
  
}
```

```
void EnterCelsius(double celsius[6])  
  
{  
  
    //DECLARING AND INITIALISING VARIABLES  
  
    stringstream stream;  
  
    string input = "";  
  
    int i;
```

```

//MAIN
for (i = 1; i < 6; i++)
{
    cout << "Enter celcuis temperature " << i << " : ";
    getline(cin, input);
    stream.str(input);
    stream >> celsius[i];
    stream.clear();
}
}

void ShowCelsius(double celsius[6])
{
    //DECLARING AND INITALISING VARIABLES
    int i;

    //MAIN
    cout << endl;
    for (i = 1; i < 6; i++)
    {
        cout << "Celcuis temperature " << i << " : " << celsius[i] << endl;
    }
}

```

```
}
```

```
void ConvertFahrenheit(double celsius[6], double fahrenheit[6])
```

```
{
```

```
    //DECLARING AND INITIALISING VARIABLES
```

```
    int i;
```

```
    //MAIN
```

```
    cout << endl;
```

```
    for (i = 1; i < 6; i++)
```

```
    {
```

```
        fahrenheit[i] = celsius[i];
```

```
        fahrenheit[i] = ((fahrenheit[i]*9)/5) + 32;
```

```
        cout << "Fahrenheit temperature " << i << " : ";
```

```
        printf("%.2f", fahrenheit[i]);
```

```
        cout << endl;
```

```
    }
```

```
}
```

```
//Exercise 4 - paste code below
```

```
#include <string>
```

```
#include <iostream>
```

```
#include <sstream>
```

```
using namespace std;

//FORWARD CALLING FUNCTIONS

void EnterNames(string name[9]);

bool SearchNames(string name[9]);

int main(int argc, char*argv[])
{
    //DECLARING AND INITIALISING VARIABLES

    string name[9];

    bool search;

    //MAIN

    EnterNames(name);

    search = SearchNames(name);

    if (search == true)
    {
        cout << endl << "Found it" << endl;
    }
    else
    {
```

```
        cout << endl << "Falied to find it" << endl;

    }

    //STOP
    cin.get();
    return 0;
}

void EnterNames(string name[9])
{
    //DECLARING AND INITALISING VARIABLES
    stringstream stream;
    string input = "";
    int i;

    //MAIN
    for (i = 1; i < 9; i++)
    {
        cout << "Enter name " << i << " : ";

        cin >> name[i];
    }
}
```

```
bool SearchNames(string name[9])
{
    //DECLARING AND INITIALISING VARIABLES

    stringstream stream;

    string input = "";

    string userSearchName;

    bool result;

    int i;

    //MAIN

    cout << endl << "Enter the name you want to search: ";
    cin >> userSearchName;  3

    for (i = 1; i < 9; i++)
    {
        if (userSearchName == name[i])
        {
            result = true;

            break;
        }
        else
        {
            result = false;
        }
    }
}
```

```
        }  
    }  
  
    if (result == true)  
    {  
        return true;  
    }  
    else  
    {  
        return false;  
    }  
}
```

FINAL GRADE

88/100

GENERAL COMMENTS

Instructor

Exercise 1: 17.5

Exercise 2: 10

Exercise 3: 12

Exercise 4: 13

See code for comments.

I would like a few more comments in the code. Your use of functions is good but SearchNames() does a little too much. Make function do one thing and one thing well.

PAGE 1

PAGE 2

PAGE 3

PAGE 4



Comment 1

The question asks for 5 numbers not 6.

PAGE 5

PAGE 6



Comment 2

Could have just put celsius in here

PAGE 7



Comment 3

I would not have put code in this function because the function is doing 2 things, entering the search value and searching for it,