

Software Development

by Lowri Jones

FILE	12029_LOWRI_JONES_SOFTWARE_DEVELOPMENT_183215_206184508 0.TXT (5.86K)		
TIME SUBMITTED	15-MAY-2019 10:54 AM (UTC+0100)	WORD COUNT	915
SUBMISSION ID	107275048	CHARACTER COUNT	4505

```
//Your name here - Lowri Jones
```

```
//Your teacher name here ie Gaynor, Mike or Tim - Mike
```

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

```
#include <string>
```

```
#include <iostream>
```

```
#include <sstream>
```

```
using namespace std;
```

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

```
{
```

```
    string input;
```

```
    stringstream stream;
```

```
    double area;
```

```
    double r;
```

```
    double pi = 3.142;
```

```
    cout << "Please enter the radius of the sphere" << endl;
```

```
    getline(cin, input);
```

```

    stream.str(input);

    stream >> r;

    stream.clear();

    cout << "The calculation to work out the surface area of a sphere is
4*Pi*RadiusSquared" << endl;

    area = 4 * 2 * (7 * 7);

    cout << "The area of your sphere is " << area << endl;

    cin.get();

    return 0;

}

```

//Exercise 3 - paste code below

```

#include <string>

#include <iostream>

#include <sstream>

using namespace std;

```

```
int main(int argc, char*argv[])
{
    string input;
    stringstream stream;

    double temperatureC[5];
    double temperatureF[5];

    cout << "Please enter the first temperature in Celsius" << endl;
    getline(cin, input);
    stream.str(input);
    stream >> temperatureC[0];
    stream.clear();

    cout << "Please enter the second temperature in Celsius" << endl;
    getline(cin, input);
    stream.str(input);
    stream >> temperatureC[1];
    stream.clear();

    cout << "Please enter a third temperature in Celsius" << endl;
    getline(cin, input);
    stream.str(input);
```



```
stream >> temperatureC[2];

stream.clear();

cout << "Please enter another temperature in Celsius" << endl;

getline(cin, input);

stream.str(input);

stream >> temperatureC[3];

stream.clear();

cout << "Please enter the final temperature in Celsius" << endl;

getline(cin, input);

stream.str(input);

stream >> temperatureC[4];

stream.clear();


cout << "your first temperature was " << temperatureC[0] << endl;
cout << "your second temperature was " << temperatureC[1] << endl;
cout << "your third temperature was " << temperatureC[2] << endl;
cout << "your fourth temperature was " << temperatureC[3] << endl;
cout << "your final temperature was " << temperatureC[4] << endl;


temperatureF[0] = (temperatureC[0] * 9 / 5) + 32;
temperatureF[1] = (temperatureC[1] * 9 / 5) + 32;
temperatureF[2] = (temperatureC[2] * 9 / 5) + 32;
temperatureF[3] = (temperatureC[3] * 9 / 5) + 32;
```

```

    temperatureF[4] = (temperatureC[4] * 9 / 5) + 32;

    cout << "your first temperature in Fahrenheit is " << temperatureF[0] << endl;
    cout << "your second temperature in Fahrenheit is " << temperatureF[1] <<
endl;
    cout << "your third temperature in Fahrenheit is " << temperatureF[2] << endl;
    cout << "your fourth temperature in Fahrenheit is " << temperatureF[3] << endl;
    cout << "your final temperature in Fahrenheit is " << temperatureF[4] << endl;

    cin.get();

    return 0;

}

```

//Exercise 4 - paste code below

```

#include <string>

#include <iostream>

#include <sstream>

using namespace std;

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

{

```

```
string input;
stringstream stream;
string names[8];
string searchName;

cout << "Please enter a name" << endl;
getline(cin, names[0]);
cout << endl;
cout << "Please enter another name" << endl;
 7
getline(cin, names[1]);
cout << endl;
cout << "Please enter another name" << endl;
getline(cin, names[2]);
cout << endl;
cout << "Please enter another name" << endl;
getline(cin, names[3]);
cout << endl;
cout << "Please enter another name" << endl;
getline(cin, names[4]);
cout << endl;
cout << "Please enter another name" << endl;
getline(cin, names[5]);
cout << endl;
```

```
    cout << "Please enter another name" << endl;

    getline(cin, names[6]);

    cout << endl;

    cout << "Please enter a final name" << endl;

    getline(cin, names[7]);

    cout << endl;


    cout << "Please enter the name of the person you would like to search for" <<
endl;

    getline(cin, searchName);

    if (searchName == names[0])
    {
        if (searchName == names[0])
        {
            cout << "you searched for " << searchName << ". We found it" <<
endl;

            }

            else if (searchName!= names[0])

            {

                cout << "We failed to find " << searchName << endl;

            }

        }
    }
```

```
    if (searchName == names[1])
    {
        if (searchName == names[1])
        {
            cout << "you searched for " << searchName << ". We found it" <<
endl;

        }
        else if (searchName != names[1])
        {
            cout << "We failed to find " << searchName << endl;
        }
    }

    if (searchName == names[2])
    {
        if (searchName == names[2])
        {
            cout << "you searched for " << searchName << ". We found it" <<
endl;

        }
        else if (searchName != names[2])
        {
```

```

        cout << "We failed to find " << searchName << endl;
    }
}

if (searchName == names[3])
{
    if (searchName == names[3])
    {
        cout << "you searched for " << searchName << ". We found it" <<
endl;
    }
    else if (searchName != names[3])
    {
        cout << "We failed to find " << searchName << endl;
    }
}

if (searchName == names[4])
{
    if (searchName == names[4])
    {
        cout << "you searched for " << searchName << ". We found
it" << endl;

```

```

        }
        else if (searchName != names[4])
        {
            cout << "We failed to find " << searchName << endl;
        }
    }

    if (searchName == names[5])
    {
        if (searchName == names[5])
        {
            cout << "you searched for " << searchName << ". We found it" <<
endl;
        }
        else if (searchName != names[5])
        {
            cout << "We failed to find " << searchName << endl;
        }
    }

    if (searchName == names[6])
    {
        if (searchName == names[6])

```

```
        {
            cout << "you searched for " << searchName << ". We found it" <<
endl;
        }
        else if (searchName != names[6])
        {
            cout << "We failed to find " << searchName << endl;
        }
    }

    if (searchName == names[7])
    {
        if (searchName == names[7])
        {
            cout << "you searched for " << searchName << ". We found it" <<
endl;
        }
        else if (searchName != names[7])
        {
            cout << "We failed to find " << searchName << endl;
        }
    }
```

```
    cin.get();  
    return 0;  
}
```

Upload to Moodle when complete.

Software Development

GRADEMARK REPORT

FINAL GRADE

51 / 100

GENERAL COMMENTS

Instructor

Exercise 1: 10

Exercise 2: 6.5

Exercise 3: 7

Exercise 4: 7

See code for comments.

You need to learn more about loops and in particular using them with arrays.

PAGE 1



Comment 1

use meaningful variable names

PAGE 2



Comment 2

`r * r`

PAGE 3



Comment 3

Use a loop

PAGE 4



Comment 4

Use a loop



Comment 5

use a loop

PAGE 5



Comment 6

use a loop

PAGE 6



Comment 7

use a loop

PAGE 7



Comment 8

Use a loop instead of this huge if else structure



Comment 9

Why are you checking this again?

PAGE 8

PAGE 9

PAGE 10

PAGE 11

PAGE 12
