

Lab 2

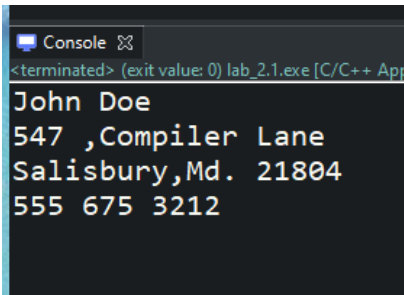
Jeremy Scheuerman

Dr. Peter Wang

Lab 2

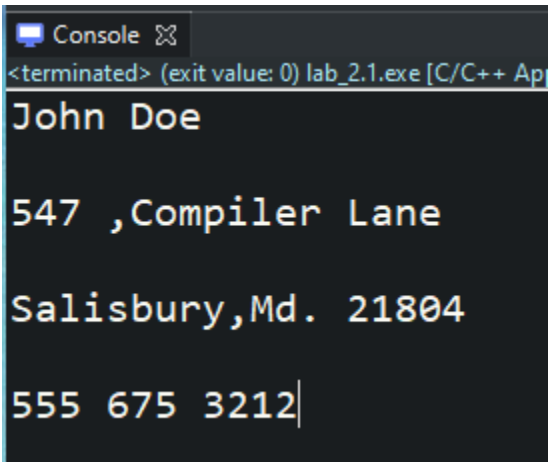
2.1

Ex 1



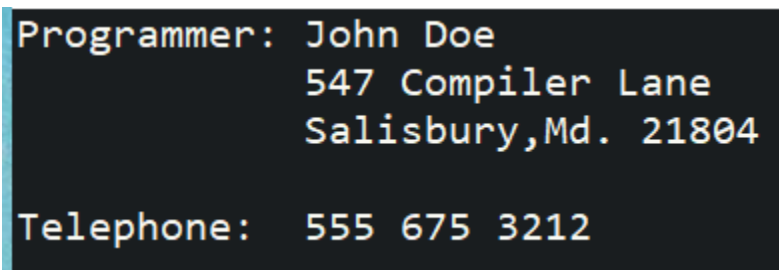
```
Console [X]  
<terminated> (exit value: 0) lab_2.1.exe [C/C++ App]  
John Doe  
547 ,Compiler Lane  
Salisbury,Md. 21804  
555 675 3212
```

Ex 2



```
Console [X]  
<terminated> (exit value: 0) lab_2.1.exe [C/C++ App]  
John Doe  
  
547 ,Compiler Lane  
  
Salisbury,Md. 21804  
  
555 675 3212|
```

Ex 3



```
Programmer: John Doe  
              547 Compiler Lane  
              Salisbury,Md. 21804  
  
Telephone: 555 675 3212
```

#include <iostream>

```

using namespace std;

int main()
{
    cout << "Programmer: John Doe" << endl;

    cout << "          547 Compiler Lane" << endl;

    cout << "          Salisbury,Md. 21804\n" << endl;

    cout << "Telephone: 555 675 3212" << endl;

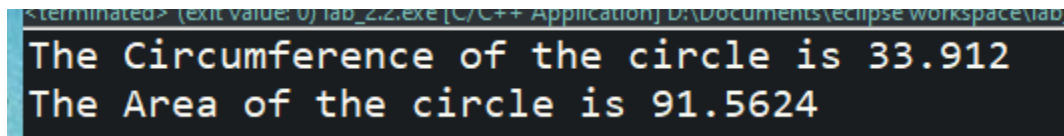

    return 0;

}

```

Lab 2.2

Ex1 :



```

<terminated> (exit value: 0) lab_2.2.exe [C/C++ Application] D:\Documents\ eclipse workspace\lab_
The Circumference of the circle is 33.912
The Area of the circle is 91.5624

```

EX 2

// This program will output the circumference and area// of the circle with a given radius.// PLACE

YOUR NAME HERE

```
#include <iostream>
```

```
using namespace std;
```

```
const double PI = 3.14;
```

```
const double RADIUS = 5.4;
```

```
int main() {
```

```

float area;

// definition of area of circle

Float circumference;

// definition of circumference

circumference = 2 * PI * RADIUS;

// computes circumference

area = PI * (RADIUS * RADIUS); // computes area

// Fill in the code for the cout statement that will output (with description)

cout << "The Circumference of the circle is " << circumference << endl;

// the circumference// Fill in the code for the cout statement that will output (with description)

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

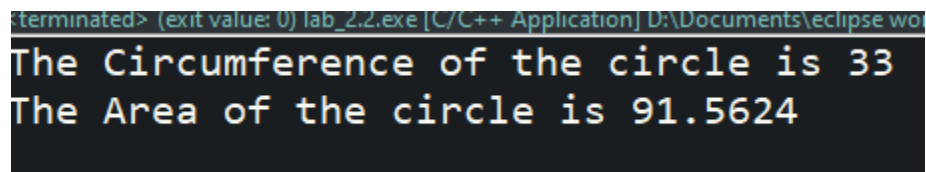
// the area of the circle

return 0;

}

```

Ex3:



```

terminated> (exit value: 0) lab_2.2.exe [C/C++ Application] D:\Documents\eclipse wo
The Circumference of the circle is 33
The Area of the circle is 91.5624

```

Lab 2.3

Ex1

// This program will output the circumference and area// of the circle with a given radius.// PLACE

YOUR NAME HERE

```
#include <iostream>
```

```
using namespace std;
```

```
const double length = 8;
```

```
const double width = 3;
```

```
int main() {
```

```
    float area;
```

```
    // definition of area of rectangle
```

```
    float perimeter;
```

```
    // definition of perimeter
```

```
    perimeter = (2 *length)+(2*width);
```

```
    // computes circumference
```

```
    area = length*width; // computes area
```

```
    // Fill in the code for the cout statement that will output (with description)
```

```
    cout << "The Perimeter of the rectangle is " << perimeter << endl;
```

```
    // the circumference// Fill in the code for the cout statement that will output (with description)
```

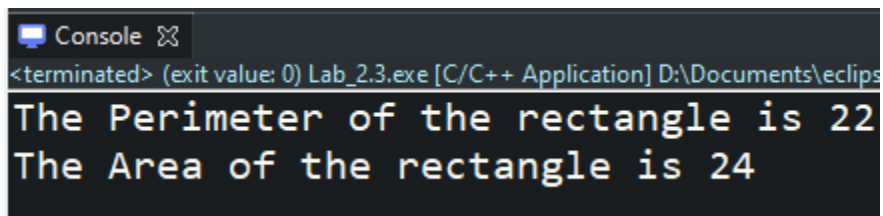
```
    cout << "The Area of the rectangle is " << area << endl;
```

```
    // the area of the rectangle
```

```
    return 0;
```

```
}
```

Ex 2



```
<terminated> (exit value: 0) Lab_2.3.exe [C/C++ Application] D:\Documents\eclips
The Perimeter of the rectangle is 22
The Area of the rectangle is 24
```

Lab 2.4

Ex1

```
Console Console
<terminated> (exit value: 0) lab_2.4.exe [C/C++ Application] D:\Documents\eclipse workspace\lab_2.4\Debug\lab_2.4
The preferred soda is Dr. Dolittle
The preferred snack is crackers
Out of 250 people
148 chose these items!
Each of these products were given a rating of B
from our expert tasters
The other products were rated no higher than a B
```

Ex2

// This program demonstrates the use of characters and strings

// PLACE YOUR NAME HERE

#include <iostream>

#include <string>

using namespace std;

// Definition of constants

const string FAVORITESODA = "Dr. Dolittle"; // use double quotes for strings

const char BESTRATING = 'A'; // use single quotes for characters

int main() {

char rating = 'B'; // 2nd highest product rating

 string favoriteSnack = "crackers"; // most preferred snack

int numberOfPeople = 250; // the number of people in the survey

int topChoiceTotal = 148; // the number of people who prefer the top choice

// Fill in the code to do the following:

// Assign the value of "crackers" to favoriteSnack

// Assign a grade of 'B' to rating

// Assign the number 250 to the numberOfPeople

// Assign the number 148 to the topChoiceTotal

// Fill in the blanks of the following:

cout << "The preferred soda is " << FAVORITESODA << endl;

cout << "The preferred snack is " << favoriteSnack << endl;

cout << "Out of " << numberOfPeople << " people " << endl;

cout << topChoiceTotal << " chose these items!" << endl;

cout << "Each of these products were given a rating of " << rating << endl;

cout << "from our expert tasters" << endl;

cout << "The other products were rated no higher than a " << rating << endl;

return 0;

}

Ex3:

No, because it is a constant and cannot be changed during execution

Ex4:

Yes, because it is not a constant therefore it can be changed during execution