

computational thinking

by Rebecca Ryall

FILE	3764_REBECCA_RYALL_COMPUTATIONAL_THINKING_182843_1174160922.TXT (2.43K)		
TIME SUBMITTED	15-MAY-2019 03:53PM (UTC+0100)	WORD COUNT	309
SUBMISSION ID	107310111	CHARACTER COUNT	1817

```
//Rebecca Ryall
```

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

```
#include<iostream>
```

```
#include<string>
```

```
#include<sstream>
```

```
using namespace std;
```

```
void CircleArea();
```

```
int optionalMenu(int option);
```

```
void rectangleArea();
```

```
void displayOptions();
```

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

```
{
```

```
    int option;
```

```
    option = 0;
```

```
optionalMenu(option)
```



```
cin.get();
```

```
return 0;
```

```
}
```

```
void displayOptions()
```

```
{
```

```
    cout << " 1. calculate area of a rectangle" << endl;
```

```
    cout << " 2. calculate area of a circle" << endl;
```

```
    cout << " 3. Exit" << endl;
```

```
}
```

```
int optionalMenu(int option)
```

```
{
```

```
    string input;
```

```
    stringstream stream;
```

```
    displayOptions();
```

```
    cout << "chose option:";
```

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

```
stream.str(input);
```

```
stream >> option;  2
```

```
stream.clear();
```

```
switch (option)
```

```
{
```

```
case 1: rectangleArea();
```

```
    break;
```

```
case 2:
```

```
    CircleArea();
```

```
    break;
```

```
case 3:
```

```
    cout << "good bye" << endl;
```

```
    break;
```

```
default:
```

```
    displayOptions();
```

```
    break;
```

 3

```
}
```

```
cin.get();
```

```
return option;
```

```
}
```

```
void rectangleArea()
```

```
{
```

```
    string input;
```

```
    stringstream stream;
```

```
    int H,W;
```

```
    float A;
```



```
    cout << "calculate area of a rectangle " << endl;
```

```
    cout << "enter Width";
```

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

```
    stream.str(input);
```

```
    stream >> W;
```

```
    stream.clear();
```

```
    cout << "enter height";
```

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

```
stream.str(input);
```

```
stream >> H;
```

```
stream.clear();
```

```
A = W * H;
```

```
cout << "area: " << A << endl;
```

```
cin.get();
```

```
optionalMenu(H);
```

```
}
```

```
void CircleArea()
```

```
{
```

```
    string input;
```

```
    stringstream stream;
```

```
    int R;
```

```
    double A;
```

```
    float PI;
```

```
PI = 3.142;
```

```
cout << "calculate area of a circle enter Radius:" << endl;
```

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

```
stream.str(input);
```

```
stream >> R;
```

```
stream.clear();
```

```
A = PI * R*R;
```

```
cout << "area: " << A << endl;
```

```
cin.get();
```

```
optionalMenu(R);
```



```
}
```

```
//Exercise 3B - paste code below
```

```
#include<iostream>
```

```
#include<string>
```

```
#include<sstream>
```

```
using namespace std;
```

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

```
{
```

```
    string input;
```

```
    stringstream stream;
```

```
    int xl, yt,w;
```

```
    cout << "please enter top top left position using XL and YT" << endl;
```

```
    cout << "enter XL:";
```

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

```
    stream.str(input);
```

```
    stream >> xl;
```

```
    stream.clear();
```

```
cout << "enter YT:";
```

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

```
stream.str(input);
```

```
stream >> yt;
```

```
stream.clear();
```

```
cout << "please enter width:";
```

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

```
stream.str(input);
```

```
stream >> w;
```

```
stream.clear();
```

```
cin.get();
```

```
return 0;
```

```
}
```

Upload to Moodle when complete.

FINAL GRADE

/100

GENERAL COMMENTS

Instructor

Exercise 1a (4): 2

Exercise 1b (8): 3

Exercise 1c (8): 3

Exercise 2a (20): 14

Exercise 2b (30): 25

Exercise 3a (20): 6

Exercise 3b (10): 0.5

.See comments in code.

You should provide more comments in your code.

Do not recursive calls, this is not a good approach especially when you can use iteration instead i.e. loops

53.5/100

Assignment 1 (Gareth's): 61%

Overall mark for module: 57%

PAGE 1

PAGE 2



Comment 1

You do not need to pass a variable to this function since you never use the value you pass in.

PAGE 3



Comment 2

Should be function



Comment 3

Do not recursive calls, this is not a good approach especially when you can use iteration instead i.e. loops

PAGE 4



Comment 4

variable names should start with a lower case letter and be meaningful

PAGE 5

PAGE 6



Comment 5

This is not a good idea because it is very confusing

PAGE 7

PAGE 8

PAGE 9
