Lab requirement for labs in Week 1

**Question 1: Find and correct errors in the following code:**

#include <iostream>

using namespace std;

int main()

{

int j = i + 11;

int k = 8.5;

cout << "j is " << j << "and

k is " << k;

return 0;

}

**This code block has two error, the sixth line and the tenth line; They both are syntax error;**

**Firstly, the first error is specifically an undefined identifier I;**

**Secondly, String type cannot be entered interlaced, and need to be on the same line**

**Question 2: Show the output of the following code:**

#include <iostream>

using namespace std;

int main()

{

int x1, x2, i, j, k, y, z;

float f;

x1 = 1;

x2 = 1;

y = 5 + x1--; //y=6, x1 = 0

z = 5 + ++x2; //z=7, x2 = 2

i = 6 % 4; //i=2

j = 1;

j += j + 3; //j = j+j+3 = 5

k = 25 / 2; // k =12

f = (float)((2 / 5) \* k); //f=0

cout << "x1 is " << x1 << endl;

cout << "x2 is " << x2 << endl;

cout << "i is " << i << endl;

cout << "j is " << j << endl;

cout << "k is " << k << endl;

cout << "y is " << y << endl;

cout << "z is " << z << endl;

cout << "f is " << f;

return 0;

}

Question 3: Write a program that prompts the user to enter two points (x1, y1) and (x2, y2) and displays their distances. The formula for computing the distance is . Note you can use pow(a, 0.5) to compute . Here is a sample run.

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This program can dispaly two points distance

\*/

#include<iostream>

#include<cmath>

using namespace std;

int main() {

//Entre the first point coordinate

double abscissaOfFirst, ordinateOfFirst;

cout << "Entre abscissa of the first point: ";

cin >> abscissaOfFirst;

cout << "Entre ordinate of the first point: ";

cin >> ordinateOfFirst;

//Entre the second point coordinate

double abscissaOfSecond, ordinateOfSecond;

cout << "Entre abscissa of the second point: ";

cin >> abscissaOfSecond;

cout << "Entre ordinate of the second point: ";

cin >> ordinateOfSecond;

//Caculate the distance between two coordinates

double distance1,distance2,distanceOfSum;

distance1 = pow(abscissaOfFirst - abscissaOfSecond, 2);

distance2 = pow(ordinateOfFirst - ordinateOfSecond, 2);

distanceOfSum = pow(distance1 + distance2, 0.5);

distanceOfSum = static\_cast<int>(distanceOfSum \* 100) / 100.0;

//display result

cout << "The distance between the two coordinates you entered is : "

<< distanceOfSum << endl;

return 0;

}