# CMPE110 Quiz Sample Questions

**Q1)** The following code may contain errors, correct these errors (if any). **In case no error, do not write anything.**

include<iostream>                                 …………………………………………..

Using namesapce std;                              …………………………………………..

#define FACT = 5.0/9                              …………………………………………..

int MAIN()                                        …………………………………………..

{Double TFah, TCel;                              …………………………………………..
cin<<TFah;                                        …………………………………………..
TCel=Fact*(tFah-32.0);                            …………………………………………..

cout>>"Celsius temperature is">>TCel;             …………………………………………..

return 0}                                         …………………………………………..

**Q2)** Complete the given C++ program that asks the user to input the sum and the difference of two real numbers, and then it will find the corresponding numbers and print them. A sample execution of your program is shown below

    **Enter sum and difference of 2 real numbers > 16.80 18.6**

    **Number1=13.700000**

    **Number1=3.100000**

```
#include <iostream>
using namespace std;
int main(){double sum, dif, number1, number2;
cout<<"Enter the sum and the difference of two real numbers >";
// Get the impute form the user
```
…………………………………………………………………………………………………….
```
// write the process to find number1 and number2
```
…………………………………………………………………………………………………….
…………………………………………………………………………………………………….

```
// Display the output on the monitor
```

.........................................................................................................

```
return0;}
```

**Q3)** The **area** of a triangle with sides **A**, **B**, and **C** is calculated as

$$Area = \sqrt{S(S-A)(S-B)(S-C)}$$

Where **S=P/2** and **P** is the triangle **perimeter** computed as

$$P=A+B+C$$

Write a C++ code to read the coordinates of three points that form the triangle vertices **P1(x1,y1)**, **P2(x2,y2),** and **P3(x3,y3)** and computes and prints on the monitor the **perimeter** and the **area** of the triangle. Note the distance between two points, **P1** and **P2** for example, is computed as

$$Distance = \sqrt{(x2-x1)^2+(y2-y1)^2}$$

**Note:** Let all variables be of type double. A sample run of the code can be as

```
Enter the coordinates of point 1: 2   5

Enter the coordinates of point 2: 2   8

Enter the coordinates of point 3: 6   8

The triangle perimeter is 12.0

The area of the triangle is 6.0

```