```
//SYARIFAH DANIA BINTI SYED ABU BAKAR
//A23CS0183
#include <iostream>
#include <cmath>
using namespace std;
int main ()
{
       // A(1,3), B(2,6), C(5,4)
        int x1 = 1, y1 = 3, x2 = 2, y2 = 6, x3 = 5, y3 = 4;
        // display points
        cout << "A(1,3), B(2,6), and C(5,4)" << endl;
        string points[4] = {
        " x y",
        "A 1 3",
        "B 2 6",
        "C 5 4"
        };
                for (int i= 0; i < 4; i++)
                {
                        cout << points[i]<<endl;</pre>
                        cout << endl;
```

```
}
```

```
// finding distance using Euclidean Distance Formula
double ab = sqrt(pow(x2-x1,2)+pow(y2-y1,2));
double ac = sqrt(pow(x3-x1,2)+pow(y3-y1,2));
double bc = sqrt(pow(x3-x2,2)+pow(y3-y2,2));

cout <<"AB = " <<ab<< endl;
cout <<"BC = " <<bc<< endl;
return 0;
}</pre>
```

## OUTPUT