THE PROGRAMMING

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// Lab exercise 2
#include <iostream>
#include <cmath>
using namespace std;
int distance(int, int, int, int);
void listvalue(int = 1, int = 3);
int main(){
        int x1,y1,x2,y2,x3,y3;
        x1 = 1;y1 = 3;x2 = 2;y2 = 6;x3 = 5; y3 = 4;
        cout << "A(" << x1 << ", " << y1 << "), ";
        cout << "B(" << x2 << ", " << y2 << "), and ";
        cout << "C(" << x3 << ", " << y3 << ")\n" << endl;
        cout \ll "\tx\ty" \ll endl;
        listvalue();
        listvalue(x2, y2);
        listvalue(x3, y3);
        cout << "\nAB = "; distance(x2, x1, y2, y1);
        cout << "AC = "; distance(x3, x1, y3, y1);
        cout << "BC = " ; distance(x3, x2, y3, y2);
        system("pause");
        return 0;
}
int distance(int a, int b, int c, int d){
        float result;
        result = \operatorname{sqrt}(\operatorname{pow}((a - b), 2) + \operatorname{pow}((c - d), 2));
        cout << result << endl;</pre>
}
void listvalue(int i, int j){
        if (i==1 \&\& j==3)
                 cout << "A\t" << i << "\t" << j << endl;
        else if (i=2 \&\& j==6)
                 cout << " B \ ' << i << " \ '' << j << endl;
        else
                 cout << "C't" << i << "\t" << j << endl;
}
```

THE OUTPUT