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MATRIC NUMBER: A23CS0207

```
#include <iostream>

#include <cmath>

using namespace std;

int main ()

{

int x1=1, y1=3, x2=2, y2=6, x3=5, y3=4;

char x,y;


cout << "A(1,3), B(2,6), and C(5,4)";


char point [2][1]={

{'x'},{'y'},

};


cout<<endl;

for(char i=0;i<1;i++){

cout<<" ";

for(char j=0;j<2;j++){

cout<<point[j][i]<<"\t";

}

}


int coor [2][3]={

{1,2,5},

{3,6,4},
```

```
};
```

```
cout<<endl;  
for(int i=0;i<1;i++){  
    cout<<"A ";  
    for(int j=0;j<2;j++){  
        cout<<coor[j][i]<<"\t";  
    }  
}
```

```
cout<<endl;  
for(int i=1;i<2;i++){  
    cout<<"B ";  
    for(int j=0;j<2;j++){  
        cout<<coor[j][i]<<"\t";  
    }  
}
```

```
cout<<endl;  
for(int i=2;i<3;i++){  
    cout<<"C ";  
    for(int j=0;j<2;j++){  
        cout<<coor[j][i]<<"\t";  
    }  
}
```

```
cout<<endl;
```

```
double AB, AC, BC;
```

```
AB = sqrt (pow(x2-x1,2)+pow(y2-y1,2));
```

```
AC = sqrt (pow(x3-x1,2)+pow(y3-y1,2));
```

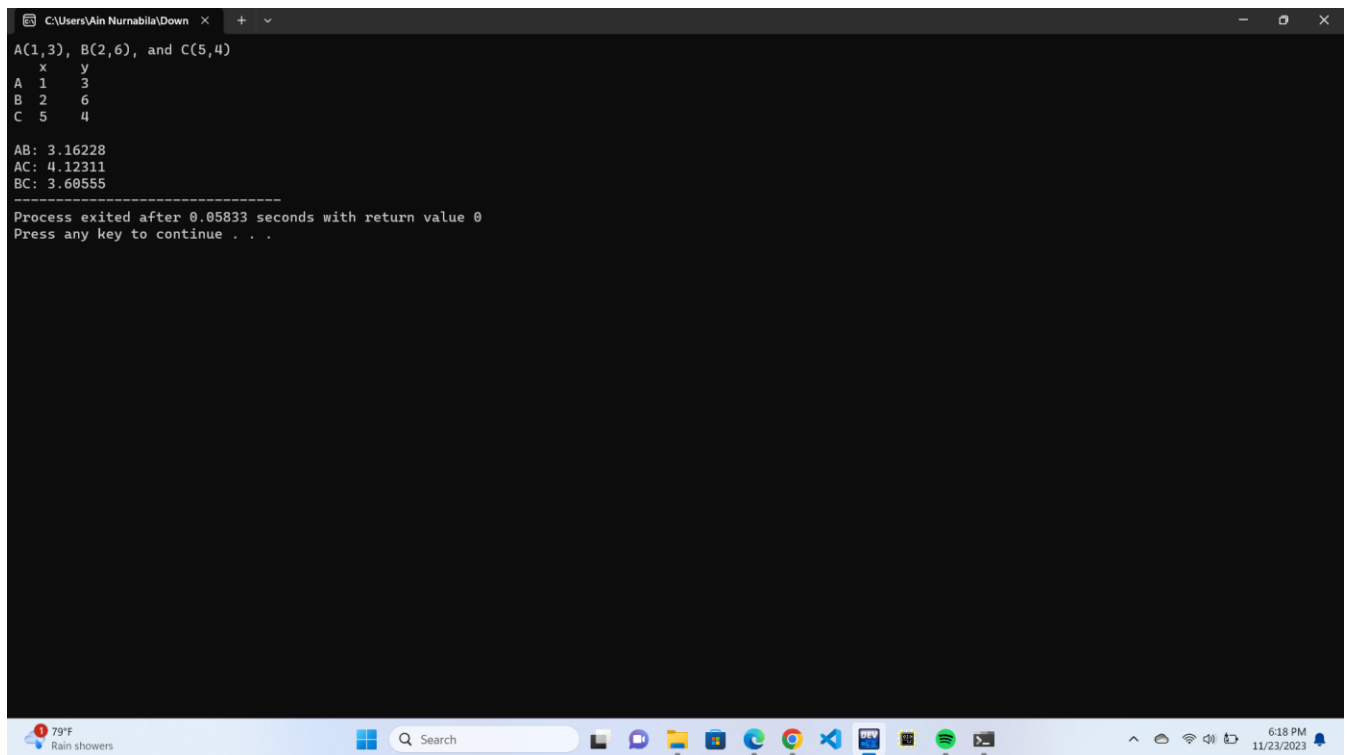
```
BC = sqrt (pow(x3-x2,2)+pow(y3-y2,2));
```

```
cout<<endl;
```

```
cout<<"AB: "<<AB<<"\n"<<"AC: "<<AC<<"\n"<<"BC: "<<BC;
```

```
return 0;
```

```
}
```



```
C:\Users\Ain Nurnabila\Down x + v
A(1,3), B(2,6), and C(5,4)
  x  y
A  1  3
B  2  6
C  5  4

AB: 3.16228
AC: 4.12311
BC: 3.60555
-----
Process exited after 0.05833 seconds with return value 0
Press any key to continue . . .
```