

| NAME | NURUL ASYIKIN BINTI KHAIRUL ANUAR |
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| MATRIC NUMBER | A23CS0162 |
| SECTION | 03 |
| COURSE | PROGRAMMING TECHNIQUE I |
| LECTURER | DR. NIES HUI WEN |
| TITLE | LAB EXERCISE 2 |

C++ CODE

```
//Nurul Asyikin Binti Khairul Anuar
//Matric number : A23CS0162
#include <iostream>
#include <cmath>
using namespace std;
double distance (int, int, int, int);
void table (int, int, int, int, int, int);
string point (int, int);
int main ()
  int x1=1, y1=3, x2=2, y2=6, x3=5, y3=4;
  cout << point (x1, y1) << ", " << point (x2, y2) << ", and " << point (x3, y3) << endl;
  table (x1, y1, x2, y2, x3, y3);
  cout << "AB = " << distance (x1, y1, x2, y2) << endl;
  cout << "AC = " << distance (x1, y1, x3, y3) << endl;
  cout << "BC = " << distance (x2, y2, x3, y3) << endl;
  system ("pause");
  return 0;
}
string point (int x, int y)
  if (x==1 \&\& y==3)
     return "A(1, 3)";
  if (x==2 \&\& y==6)
     return "B(2, 6)";
  if (x==5 \&\& y==4);
     return "C(5, 4)";
}
void table (int a, int b, int c, int d, int e, int f)
  string alp [] = {"A", "B", "C"};
  int point [] = \{a, b, c, d, e, f\};
  cout << " \tx\ty" << endl;</pre>
  for (int i = 0; i < 3; i++)
     cout << alp [i] << "\t";
     cout << point [i*2] << "\t" << point [i*2+1] << endl;
  }
}
double distance (int a1, int b1, int a2, int b2)
  double distance = sqrt(pow((a2-a1),2) + pow((b2-b1),2));
  return distance;
```

SCREEN OUTPUT