ENGR–UH 1000 Lab 0 Report

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2 Gathering of Information and Input/Output Description.

3 Test Cases (Hand-Solved Examples) and Algorithm Design.

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5 Software Testing and Verification.

```
1  /*-------------------------------------------------*/
2  /* Name: your_name_here, Student Number: 0000001 */
3  /* Date: August 24, 2020. */
4  /* Program: distance.cpp */
5  /* Description: This program computes the distance */
6  /* between two points. */
7  /*-------------------------------------------------*/
8  #include <iostream>
9  #include <cmath>
10 using namespace std;
11 int main()
12 {
13 /* Declare and initialize the variables */
14 double x1 = -1, y1 = -3, x2 = 4, y2 = 6;
15 double length1, length2, distance;
16
17 /* Compute the sides of a right triangle */
18 length1 = x2 - x1;
19 length2 = y2 - y1;
20
```

```
21 /* Compute the distance between the two points. */
22 distance = sqrt(length1*length1 + length2*length2);
23
24 /* Print the distance */
25 cout << "The distance between the two points is " << distance << endl;
26  return (0);
27 }
28 /*-------------------------End--------------------*/
```