**Asg2.Question 1:**

1. Given these five points in a 3-D space, compute and show the dissimilarity matrix. Use Euclidian distance as the dissimilarity measure. A(4,5,5), B(5,3,3), C(1,1,5), D(4,4,1), E(5,5,0)
2. Repeat part (a) using Manhattan distance as dissimilarity measure.
3. Draw a scatter plot for the distances obtained in parts (a) and (b) to identify the relationship between the two dissimilarity measures.

**Asg2. Question 2:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Name | Fever | Cough | Height | Weight | Profession | City |
| Ali | Y | N | 65 | 70 | Student | Lahore |
| Bilal | Y | Y | 55 | 65 | Student | Karachi |
| Khan | N | N | 70 | 75 | Teacher | Lahore |
| Ahmed | N | N | 61 | 59 | Doctor | Islamabad |

Given the data above, compute the dissimilarity matrix. Fever and Cough are asymmetric binary, Height and weight are numeric, Profession and City are nominal attributes.

**Asg2. Question 3:**

Download and install Weka on your systems. Explore the datasets provided with the installation. Submit a report containing basic statistics and plots for Iris dataset using Weka tool.

Following links can be useful.

<https://sourceforge.net/projects/weka/>

<https://www.cs.waikato.ac.nz/ml/weka/>

<https://waikato.github.io/weka-wiki/downloading_weka/>