**CS2023 - Data Structures and Algorithms**

**In-class Lab Exercise**

Week 9

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**Question 1**

1)

A picture containing text, diagram, line, handwriting

Description automatically generated

4) ![A screen shot of a computer

Description automatically generated with medium confidence]()

5) Then we should implement a single element entry operation. The updated code is as follows.

void addedge(int u, int v){

//select node u and push v into u's neighbour.

nodes[u].neighbours.push\_back(v)

}

**Question 2**

Sim(a, b) =

Let’s consider the similarity between node 4 and possible nodes which can be connected with node 4.

* Sim(4, 2) = =
* Sim(4, 3) = =
* Sim(4, 5) = =

According to the similarity prediction, node 5 is the most suitable one to connect with node 4.

Link for the Git hub repository: [hashirupramuditha/CS2023---Data-Structures-Algorithms (github.com)](https://github.com/hashirupramuditha/CS2023---Data-Structures-Algorithms)