Assignment # 1

October 4, 2017

1 Question (1)

Mention the mistakes in the following code and modify it (lab code)

```
In [ ]: function checkDirectedOut(Mat)
            n = size(Mat,1)
            numArcs = sum(Mat)
            if numArcs == n-1
                for i =1:n
                    if sum(Mat[:,i] ) >1
                        return false
                    else
                        return true
                    end
                end
            else
                return false
            end
        end
```

2 Question (2)

```
In [ ]: function isConnectedHops(numberOfHops,node1,node2,predArray)

            #Write some code here to find if node1 and node2 are connected through
            #the specified number of hops (numberOfHops) using the predecessor array (predArra

            #Output: true or false
        end
```

```
In [ ]: Example 1:
            predArray = [0,1,5,2,4]
            node1 = 2
            node2 = 5
            numberOfHops = 2
            Output = true
```

```
Example 2:
    predArray = [0,1,5,2,4]
    node1 = 1
    node2 = 3
    numberOfHops = 3
    Output = false
```

3   Submission Instructions:

1. Subnission deadline 12 October 2017 at 11:59 pm.
2. Send your assignment to cicourse2014@gmail.com.
3. The subject of your email should be "ID_Assignment#1".
4. Send your assignment file as ".jl" file (no zipped folders or notebooks) and name the file with "ID_Assignment#1.jl"