Question 1

Step 1- Create a adjacency matrix

Step 2-Run a loop along the matrix until row number or the column number exceeds.

Step 3- If the index is 1, increment the row we are checking by 1 else increment the column.

Step 4- If rows exceeds the number of vertices, it means that there is no sink.

Step 5- If rows does not exceed the number of vertices run a loop along the row in the matrix if non of the elements are 1 in a row then it’ll check along the column of that element if all the elements other than that particular vertex are 1 then there exist a sink. If at least one condition fails it means there is no sink.

Step 6- Print the output.