# **Assignment 9**

**Consider a cyclic directed graph [edge (p, q), edge (q, r), edge (q, r), edge (q, s), edge (s,t)] where edge (A,B) is a predicate indicating directed edge in a graph from a node A to a node B. Write a program to check whether there is a route from one node to another node.**

start:-write('Cyclic Directed Graph\n'),

write('Enter source vertex: '),

read(A),

write('Enter destination vertex: '),

read(B),

route(A,B),write('Route exists');write('Route doesn\'t exist').

edge(p,q).

edge(q,r).

edge(q,s).

edge(s,t).

route(A,B):-edge(A,B).

route(A,B):-edge(A,C),route(C,B).

**Output**

