Z.H.C.E.T., Aligarh Muslim University – Aligarh

Advanced Computing Lab

(COC **3960**)

EXPERIMENT R1

Submitted to: **Dr Ash Mohammad Abbas**

Submitted by: **Ravi Sahni**

Faculty No.: 17 COB **085**

Enrolment No.: GJ 7718

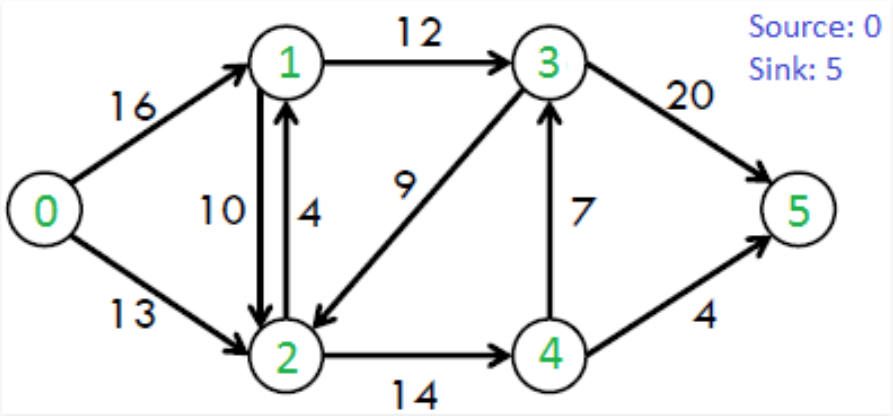
Serial No.: **24**

Class: B. Tech. (A3CO)

Experiment R1: Given a flow network, write a program to find the maximum flow using FORD-FULKERSON Algorithm.

Sample Input:

Below is a sample flow network with source at node 0 and sink at node 5.




```
C:\Users\Ravi Sahani\Desktop\17COB085_COC3960_R1.exe

ENTER THE NO. OF NODES: 6

NODES GENERATED!
Nodes: 0 1 2 3 4 5
ENTER SOURCE NODE: 0

ENTER DESTINATION NODE: 5


ENTER THE FLOW NETWORK:
INPUT -1 TO EXIT

Source Node: 0
Destination Node: 1
Weight: 16

Source Node: 0
Destination Node: 2
Weight: 13

Source Node: 1
Destination Node: 2
Weight: 10

Source Node: 2
Destination Node: 1
Weight: 4

Source Node: 1
Destination Node: 3
Weight: 12

Source Node: 2
Destination Node: 4
Weight: 14

Source Node: 3
Destination Node: 2
Weight: 9

Source Node: 4
Destination Node: 3
Weight: 7

Source Node: 3
Destination Node: 5
Weight: 20

Source Node: 4
Destination Node: 5
Weight: 4
```

Sample Output:

The solution for the above sample problem would be: