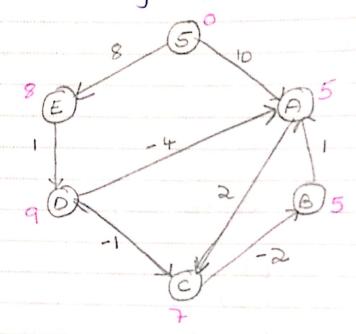


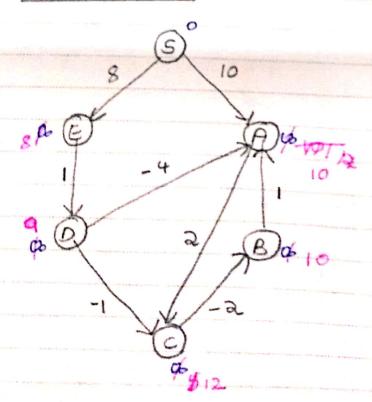
PAGE NO. ; DATE : / /

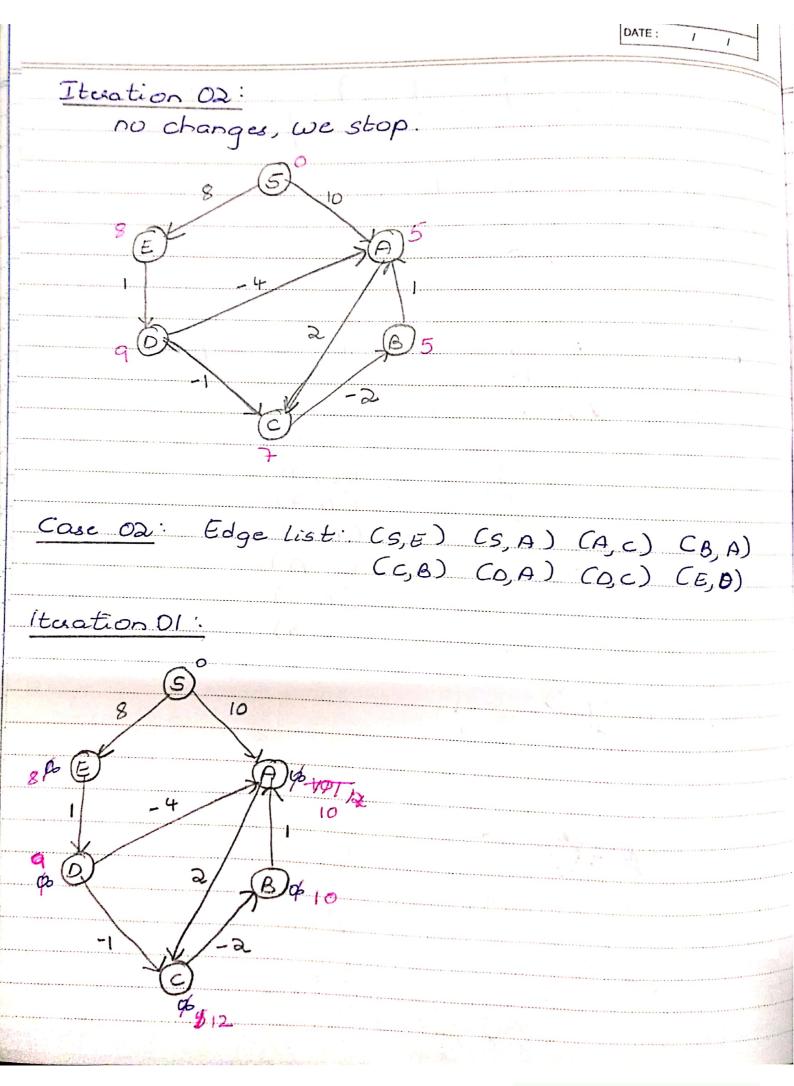
### Iteration 02: no changes, we stop.



Case od: Edge list: (S,E) (S,A) (A,C) (B,A)
(C,B) (CO,A) (O,C) (E,O)

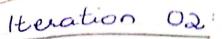
#### Ituation DI:

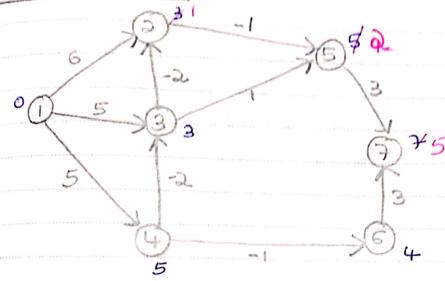




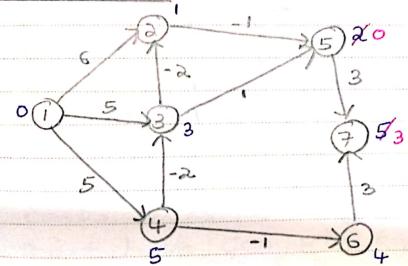
DATE : Ituation 02: 10 Iteration 03: Ituation 04: Nothing changes We Stop.

# Note: With n vertices, we will have atmost n-1 iterations. Example 02: Edge list: (1,2) (1,3) (1,4) (2,5) (3,2), (3,5) (4,3) (4,6) (5,7) (6,7) Ituation 01: 06 5

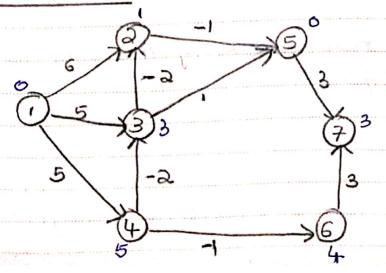




Iteration 03:



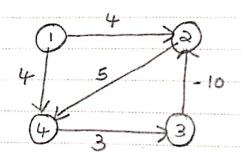
Ituation 04



No changes, We Stop.

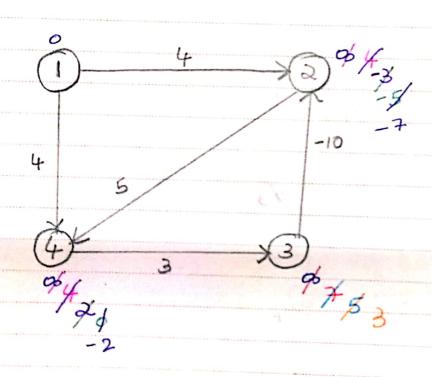
PAGE NO.:

#### Example 03:



## Edge list:

#### Iterations



Iteration 01
Iteration 03
Iteration 05
Iteration 05
Iteration 06
Iteration 07
E
So on.

Bellman-youd will not work if there is a negative weight cycle.

In the graph:

 $4 \rightarrow 3 \rightarrow 2 \rightarrow 5 \rightarrow 4$  is a negative weight Cycle.