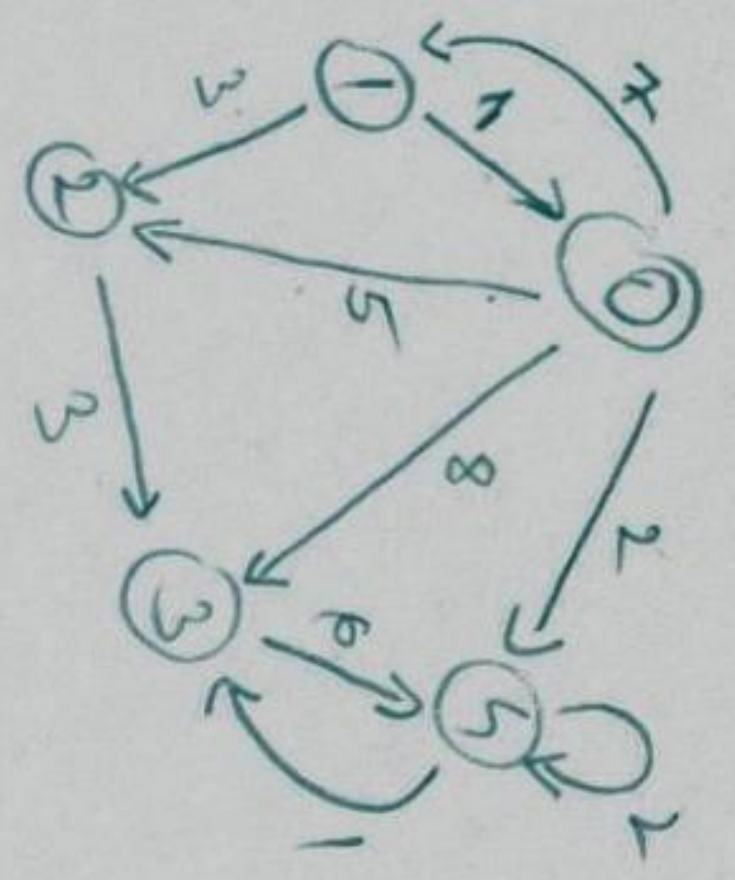


Ques 3] Minimum cost walk for a small graph (there is a walk)



init  
start-vertex = 1  
end-vertex = 4

- Dist costs
- (1,0): 1
  - (1,1): 3
  - (2,3): 3
  - (0,1): 4
  - (0,2): 5
  - (0,3): 8
  - (0,4): 2
  - (4,1): 2
  - (3,4): 6
  - (4,3): 1

found	X	Y	dist	dist	next dist	priority queue	path
False			0 1 2 3 4	0 1 2 3 4	0 1 2 3 4	[(4,0)]	[ ]
False	4	4	2 2 2 2 2	0 1 2 3 4	0 1 2 3 4	[ ]	[ ]
False	4	0	2 2 2 2 2	0 1 2 3 4	0 1 2 3 4	[(0,2)]	[ ]
False	4	3	2 2 2 2 2	0 1 2 3 4	0 1 2 3 4	[(0,2), (3,6)]	[ ]
False	0	1	2 3 2 2 2	0 1 2 3 4	0 1 2 3 4	[(3,6), (4,3)]	[ ]
False	1	0	2 3 2 2 2	0 1 2 3 4	0 1 2 3 4	[(3,6), (4,3)]	[ ]
X == start-vertex ==> found = True							
current-vertex = 1							
current-vertex = 0							
current-vertex = 4							
current-vertex = -1							
return: dist[1] = 3, path = [1,0,4]							

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