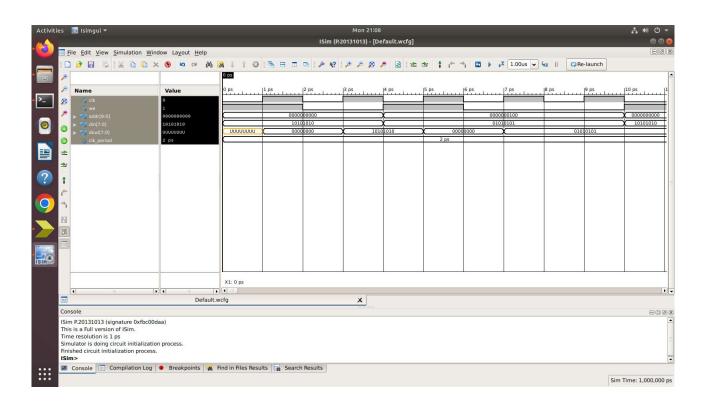
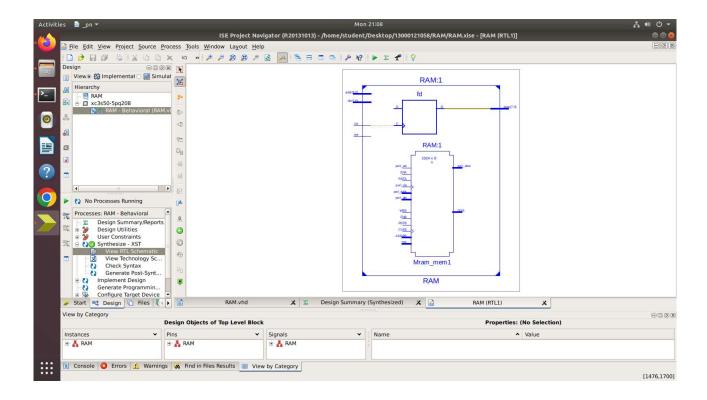
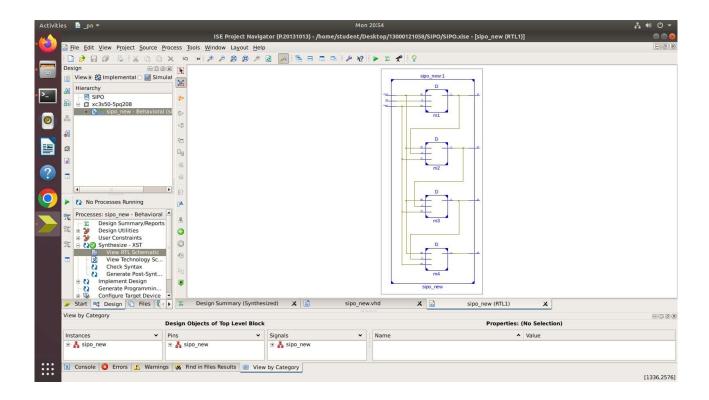
# **TEST OUTPUT**



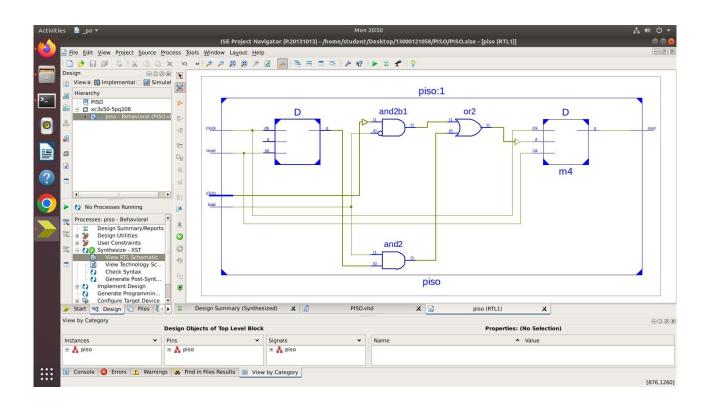
## SCHEMATIC OUTPUT



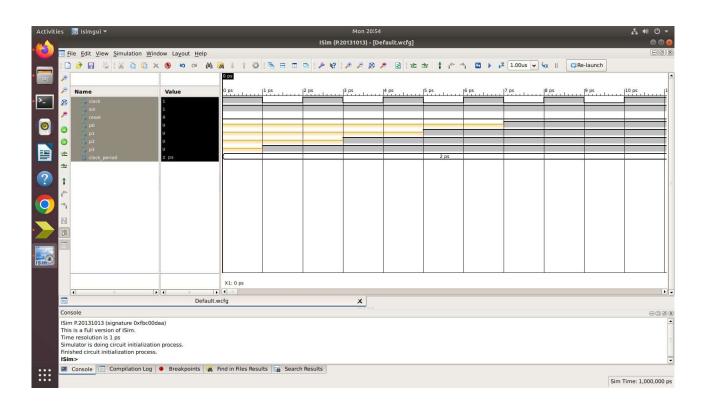
### SCHEMATIC OUTPUT



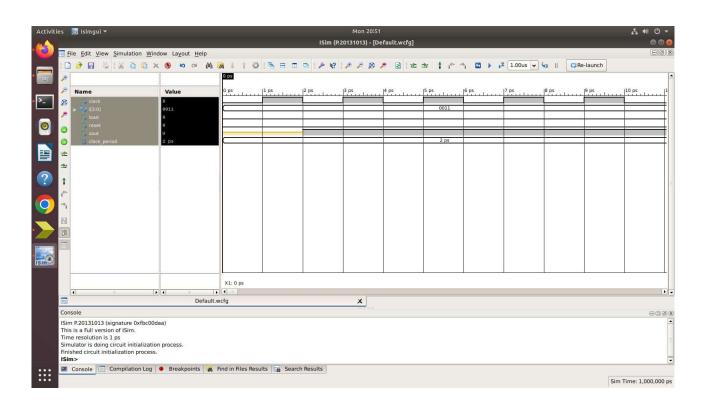
# SCHEMATIC OUTPUT

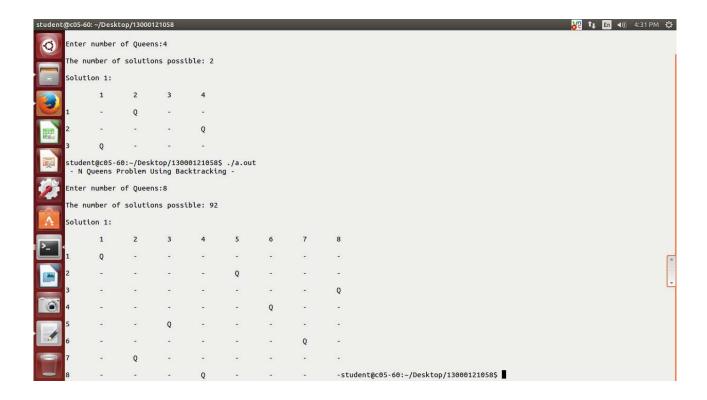


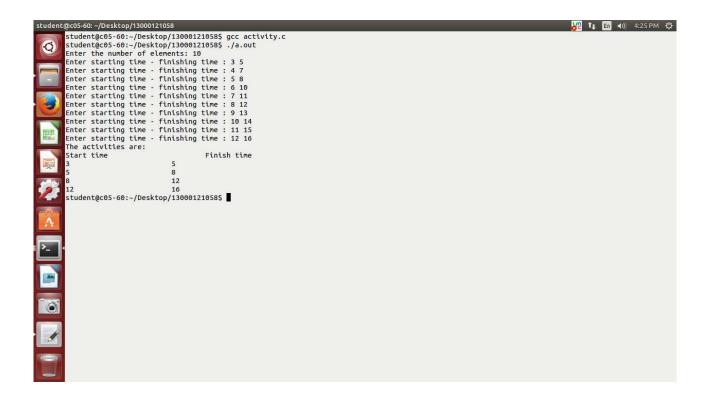
# **TEST OUTPUT**



# **TEST OUTPUT**

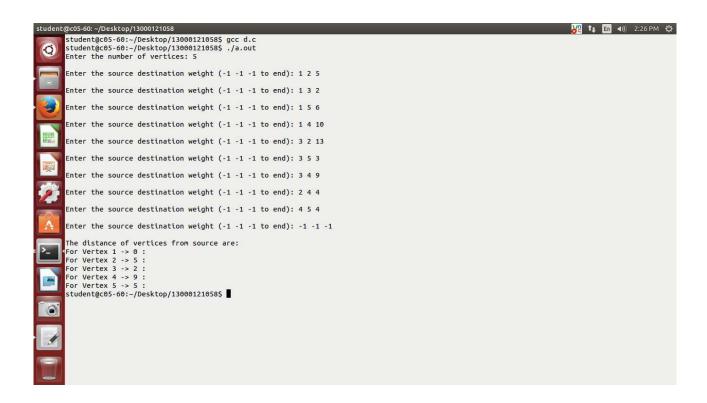






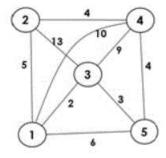


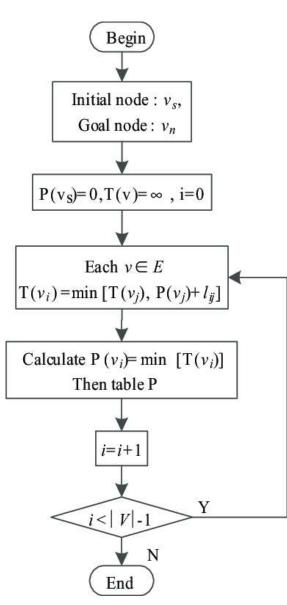




#### ASSIGNMENT 4.1

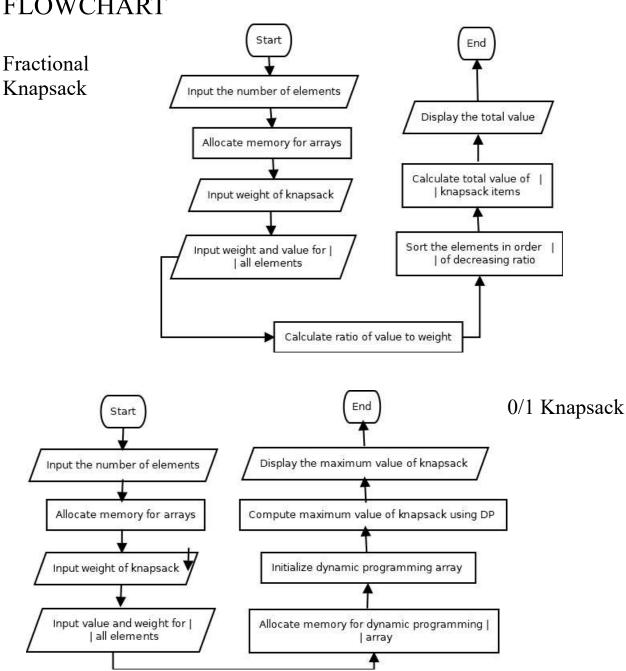
Implement Single Source shortest Path for a graph (Dijkstra Algorithm) problem to find out the shortest path from the source vertex '1', using the Dijkstra's algorithm, using the dynamic programming technique.





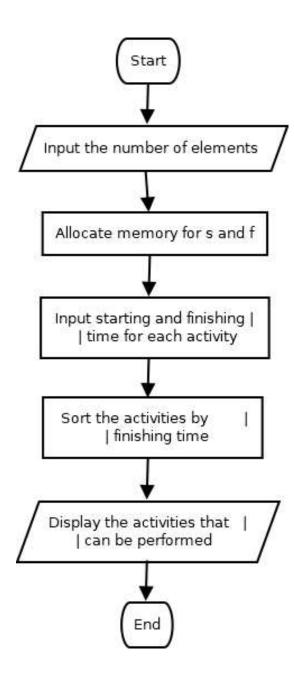
#### **ASSIGNMENT 8.1**

Consider the following knapsack problem where n = 3, W = 20Kgs, (v1, v2, v3) = (25, 24, 15), and (w1, w2, w3) = (18, 15, 10). WAP to find the optimal solution by fractional knapsack (greedy method) as well as 0 / 1 knapsack (Dynamic programming method).



#### **ASSIGNMENT 8.2**

Given a set of '10' jobs with their si and fi, find the optimal sequence of mutually compatible jobs using the greedy method:  $A = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$ , si =  $\{3, 4, 5, 6, 7, 8, 9, 10, 11, 12\}$  and fi =  $\{5, 7, 8, 10, 11, 12, 13, 14, 15, 16\}$ .



### **ASSIGNMENT 10.1**

WAP to implement the N-Queen's problem using the method of backtracking.

