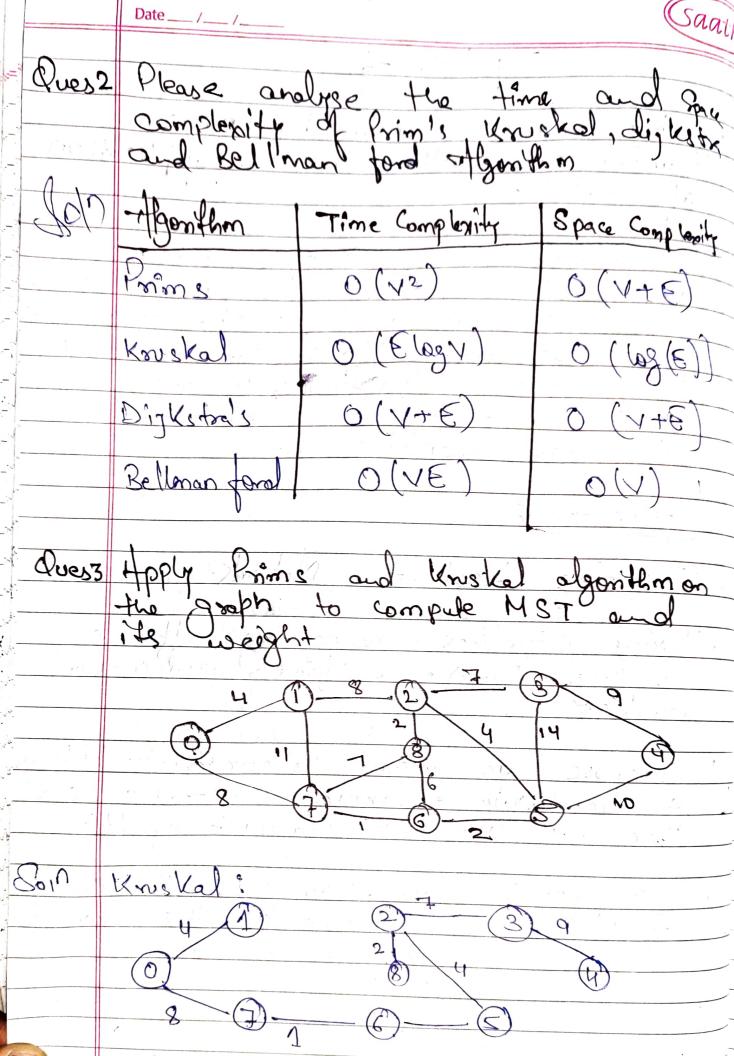
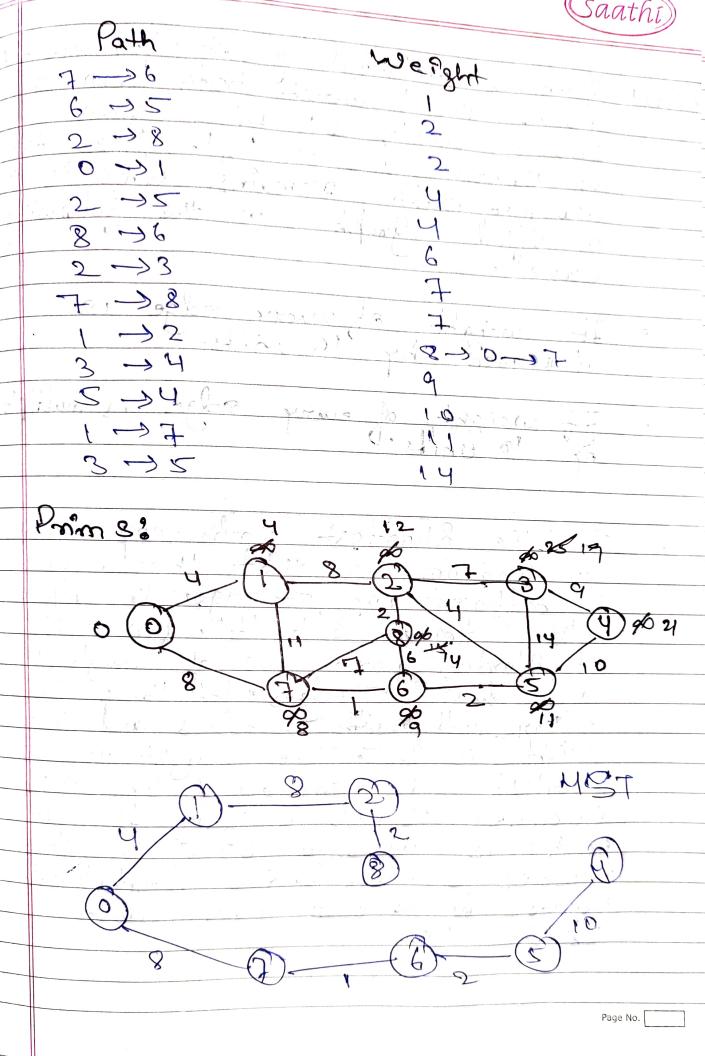
Jutorial -6 Quest Espaning tree? What is the application the edger of a connected, edge-weights

undirected graph that connected all

cycle and with the minimum possible 4 minimum edge weight? Application: · Designing Rocal Area Network. laying pipe lines connecting off shore drilly sites, Definers and consumer markets. er braidways supenning several cities then we use the concept of MST. of M3T to connect the concept Page No.





Quest Given a weighted graph "You are all given the Shantest bath from a Secrete vertex 'I'. Boes the Shortest path semains some in the modified graph in the following Case. · It weight of every edge is in creased by 10 units. is to unity. I swarp edge is multiplied It The Shortest path may charge,

The Shortest path there may

Be different no. of edger in different

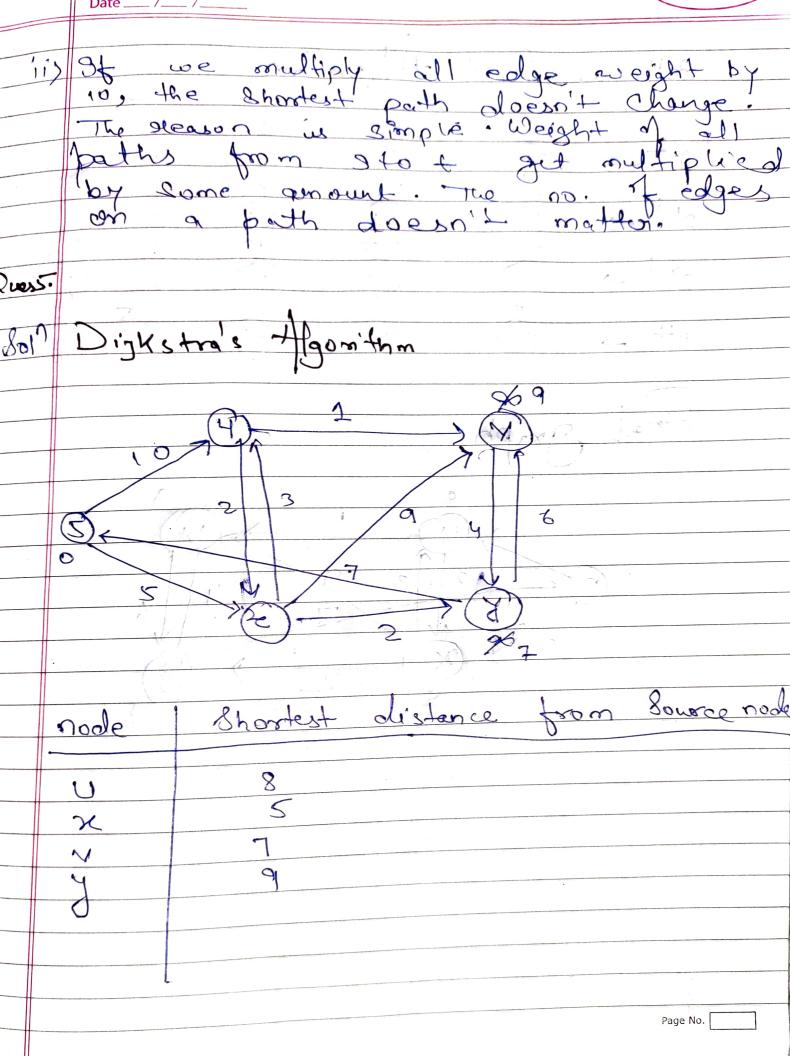
Paths: for example

let Shortest path be of weight 15

and has sedger let there be

another path with 2 edges and total

weight is 25, The weight of the Shortest is increased by 5# 16
Secomes 15+50 weight of other
path is increased by 2# 10 it
becomes 25+20, 80 the Shortest path
Changes to the other path robuse



Saathi Date \_\_\_ /\_\_ /\_ Bellman 00 00 ŧ, 3