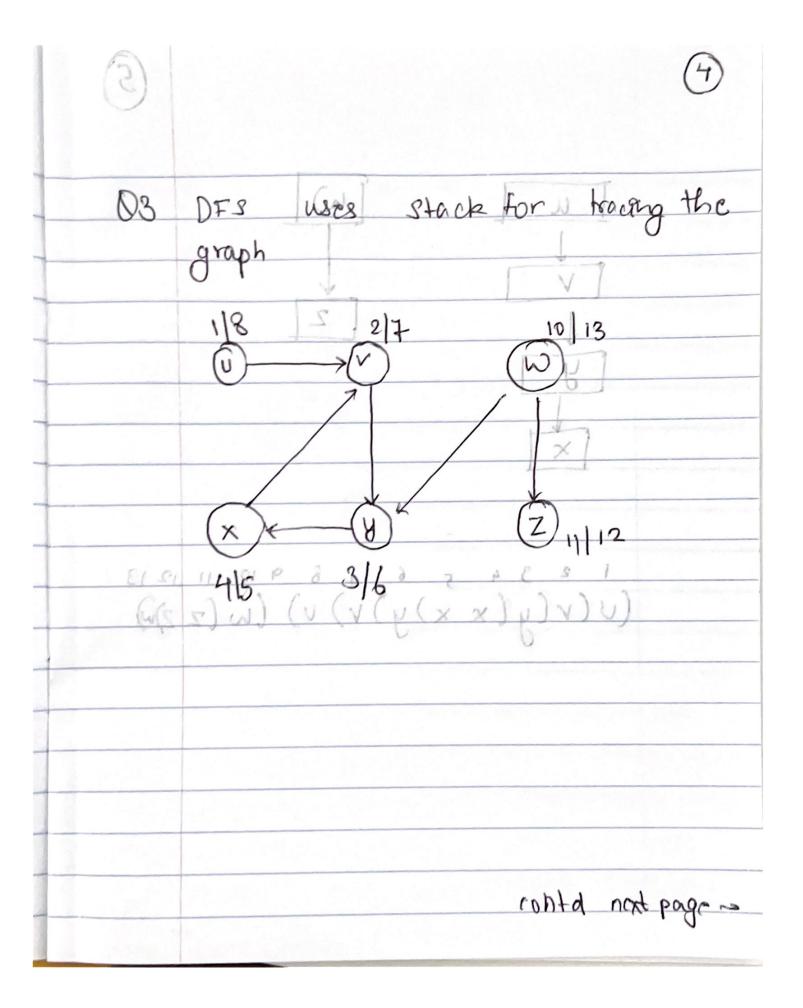
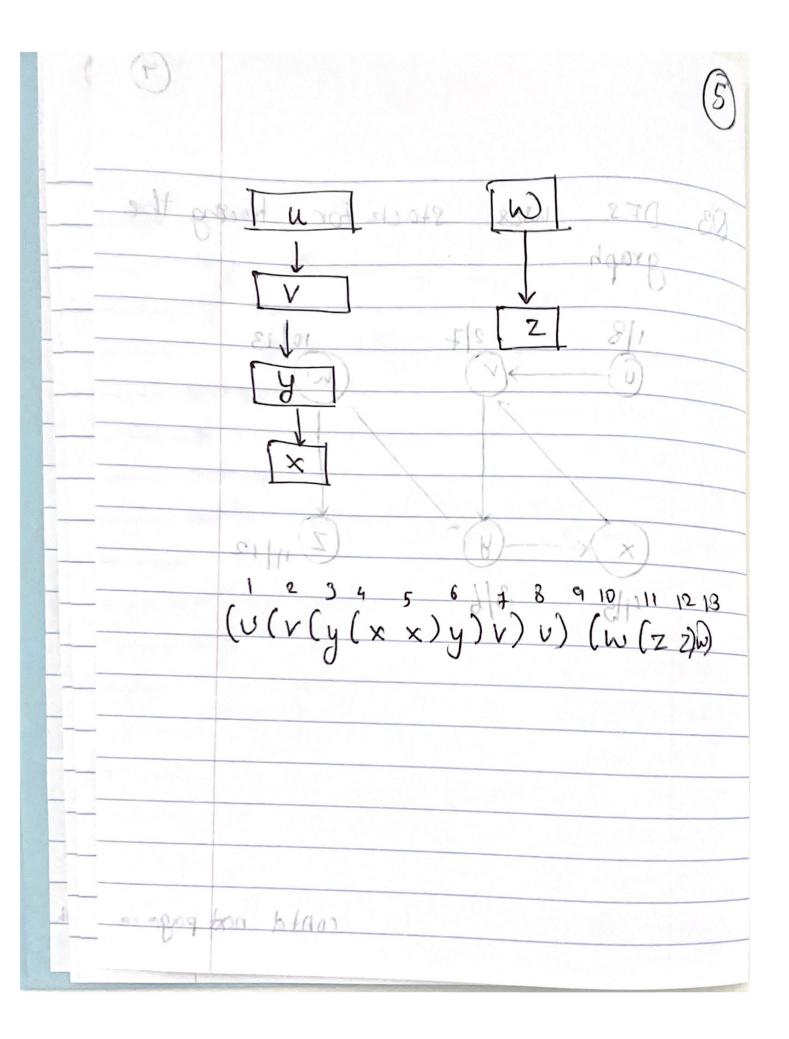
Name: Rahul Roithod 04/08/2022 Assignment 8 Net 1080 164080 Given the number of nodes on the graph to bel, number of edges on the graph to be touth, numbers temporary 2 Por edition a Adjacency 18st: O(VTE) Adjacency materis o (v2) In DFS, We go through preay node once & go through (risit) the one adjacent to them. In each case we shall show require to O(V) trineso show traps In case of adjacency list, we only have to visit every edge on meany 18st thus O(E) so Total numary time & (0(n)+ 0(c)= 0(r+ €) In case of adjacency maker, a we have only E redgest, thus whom we go through

J v, d<v, d<v, t<yf, u is the ancestor of r. Otherwese 94, v, de u, de v, f, L v, f v is the aniestor of acomplete DFS & store the discover time to fangoh time. Other operations have constant time O(1), so total hunning time = O(n) so we only need Oh) time to intralize & o(1) to determine the indationship between 2 (U(V(y(x)y)(w(y)z)





04	CH-
	de prs (s, e, out=degners)
	A 670:
	prant -> (list (out)) -> trang
	out.append(sci)
	PPS (S, P-1, DU+)
	out. popl)
	while P>O and SEIJ & equal to SEI-U:
	P=P-I
	pps (2, i-1, out)
	def PSCS):
	2017 2 (5.2017)
	pPs (s, len (s) - 1)
	26x(2 (20) (20) (20) 2)

(3)