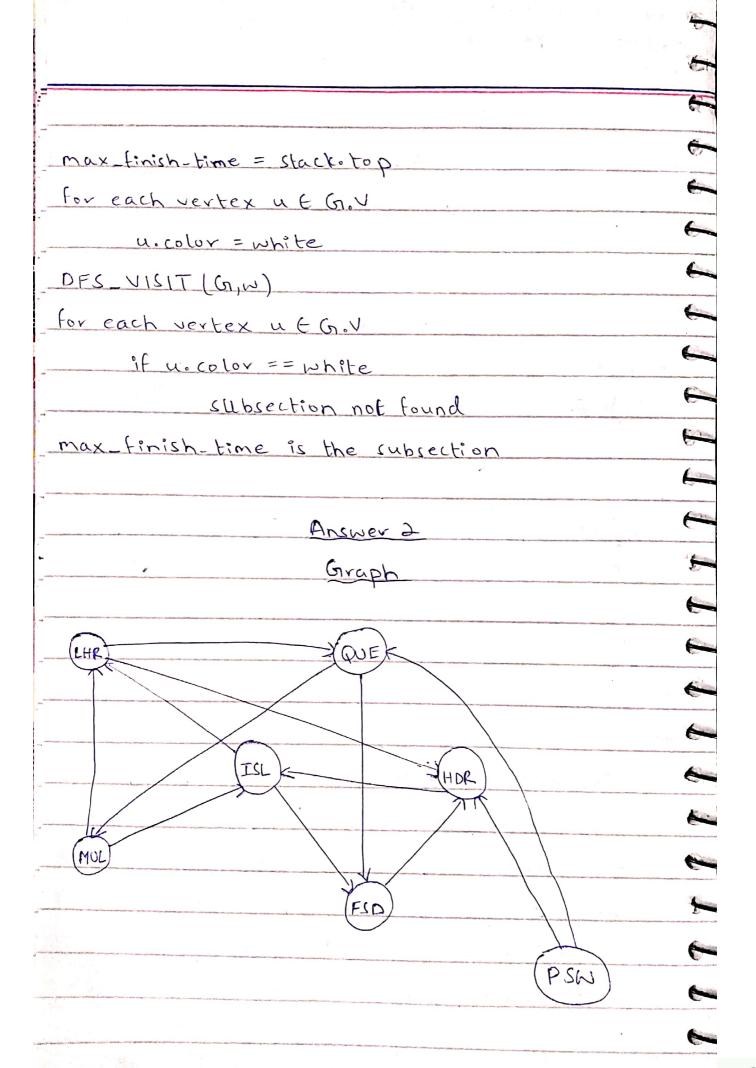
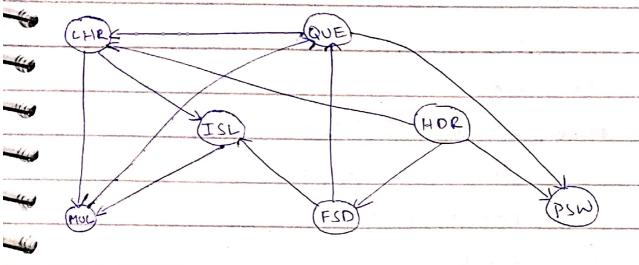
Name: Muhammad Uzair ROLL No. LIFIEBSCS0311 section-F AA Assignment I Answer 1 Graph MIL/1/15 564/3/6 561/2/7 561) NIL/15/16 NIL/13/14 565/9/10 8 92 20118/11 567/4/5 Performing DFS_VISIT > Find Subsection ((1) for each vertex y EG.V 4. color = white Stack = NULL time = 0 for each vertex u & GoV if u.color == white DFS-VISIT (G, W) Scarineu with CamSo



Taking trunspose + DFS_VISIT



time = time +1

u.start = time

u.colov = grey

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for each v E Gotranspose . Adj [u]

if v.color == white

OFS_VISIT (G. transpose, V)

u. color = black

time = time +1

uofinish = time

stack. push(u)

	6
-> Performing DFS-VISIT on the original graph	
- DFS_VISIT (Cn, u)	. 6
u · start = time	6
- u.colov = grey	6
for each v E Gr. Adj [u]	. 6
if v.colov == white	
DFS-VISIT (G,V)	. 6
u.color = black	6
-> Finding Bzones	
SCC (G)	-
for each vertex u & G.V	
u.parent = NIL	•
u.color = whote	
Stack = NULL	~
time = 0	~
for each vertex u & Gitranspose. V	
if u.colov == white	•
OFS_VISIT (Gotvanspose, u)	-
L Jood arr (V)	-
for each index y E arr	•
u = false	

time = 0 while stack not empty u= Stack.pop if arrow == false time = time +1 OFS-VISIT (G, U) arrou=true. Answer 3 Graph and time 1 week 1 week 1 weeks (PI) 1 week 2 weeks 1 week Ineeles P8 2 weeks 2 weeks -> PI = Iweeks - > P) = 6 weeks (+) P3 = 2 weeks - > py = y weeks. → >P5 = 9 3 weeks

Pb = 2 weeks

P7 = 2 weeks

P8 = 2 weeks

P9 = 5 weeks

Total time = 28 weeks.