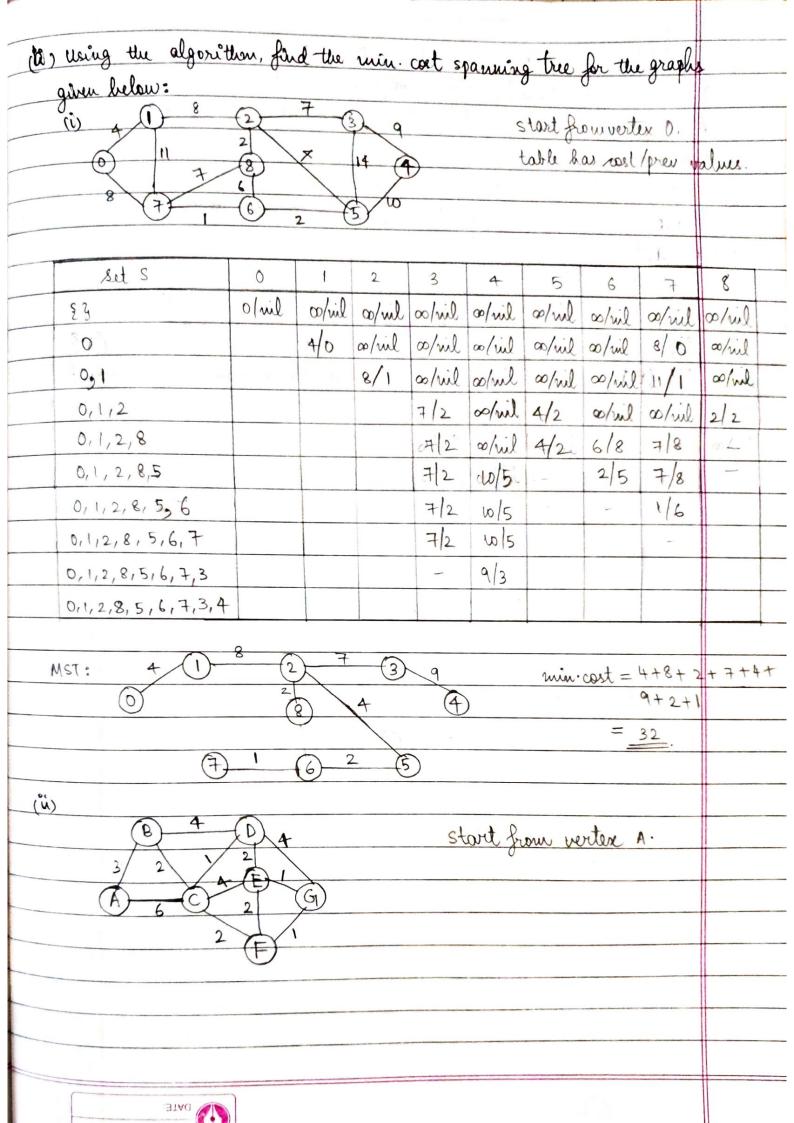
26.03.2020 Priens Algorithm	
cas laudocode	
Input: A connected undirected graph or with edge weights we	
Input: A connected undirected graph or with edge weights we. Output: A winimum spanning tree defined by the array prev.	
for all nev:	
$cast(u) = \infty$	
prev(u)= vil	
Pick any initial node no.	
Cost (us) = 0.	
H= makequeue (Y) (pribrity queue, using cost-values as keys).	
while H is not empty:	
V= deleternin (H)	
for each Ev,z3 ∈ E:	
if $cost(3) > w(v,3)$:	
$cost(z) = \omega(v,z)$	
prev (z) = v	
cost(z) = w(v,z) prev (z) = v decreasekey (H, z)	
DATE:	



Sed S	A	В	C	D	E	F	G	
£ 3	0/nil	00/inl	∞/ril	∞/wil	o/wil	0/inl	o/ril	
A		3/A	6/A	00/vil	∞/ril	0/ml	0/ril	
A,B			2/8	4/0	∞/vil	o/rul	∞/rul	
A,B,C				1/6	4/c	2/c	april	
A,B,C,D					2/0	2/c	4/0	
A, B, C, D, E						2/6	1/E	
A, B, C, D, E, G						1/6		
A, B, C, D, E, G, F								

MST: BMin. cost: 3+2+1+2+1+1 $= \underline{M}$ F