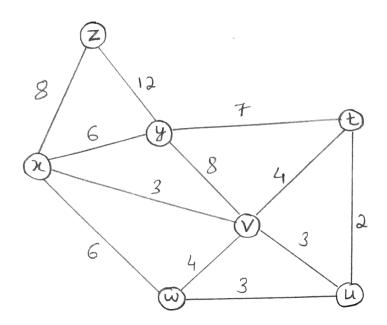
11/28/2016

Data Communication - I

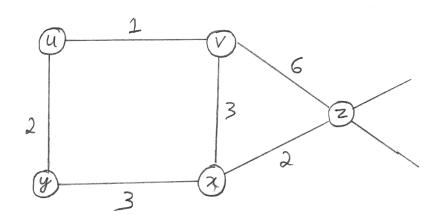
 $\frac{HW-5}{2}$ 

Kiran Shettar UML ID-01605800 Problem - 3:



Step	D(z), P(z)	7	D(t), P(t)	D(4), D(V)	D(v), P(v)	D(ω), P(ω)	D(y), P(y)
$\bigcirc$	8, x	X	$\infty$	8	3, X	6, x	6, x
1	8, x	χV	7, 4	6, V	3, x	6, x	6, x
2	8, ×	XVU	7, ٧	6, v	3, X	G, X	6, %
3	8,21	хчиш	7, 4	6, 4	3, %	6,76	G, X
4	8, x	2 4 4 4 4 4 4	7, ✓	6, 4	3, 20	6,2	6, X
5	8,21	xvuwyt	7, ✓	6, 4	3, n	6,2	6, H
6	8,x	xvuwyłz	7,4	6,4	3,x	6, x	6, %

Problem 5:



Given: Each node initially knows the cost to 2 each of its neighbors.

Cost to:

	u	$\vee$	X	y	Z
from V	1	0	3	3	5
	,	3		3	2
From 1	4	)	a a	5	0
From y	(g) 6	5			

#### Cost to:

		ч	٧	x	7	2
From		1	0	3	3	5
from )	c	4	3	0	3	2
from 2	2	6	5	٦	5	0

## Problem 8:

\* Nove 'n' table:

		1 /	Cost	to:	
Cost	to:				

	×	y	7	, /i	<b>X</b> ,	7 7
from 2c	0	3	4	From 2	0.	3 4
From y	200	$\infty$	<b>X</b>	Fromy	3	0 6
<u> </u>	$\sim$	₩	$\bowtie$	From 3	4	6 0
From 2						1 / 1

## \* Node 'y' table:

The second second

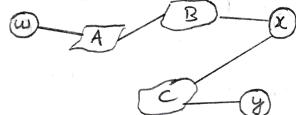
	_			Cost	to:	1		
Cost to	) X	y	2	( )	X	°	Ju	7
from 2		₩		from x	0		3	2,
from y		0	6	From	3	· · · · · · · · · · · · · · · · · · ·	0	6
from Z	7	<b>&gt;</b> , ( ) ;	<b>&gt;&gt;</b>	From 2	۷,	j .	6	n (0
* NoJe	'z' to	eble:	, 6		t-0:			
cost t	0 3	4	7	Cost	x		y	2
,	2	<sup>7</sup> ∞	200	From oc	0		3	٠ ٧
From y		<b>6</b> ₩	000	From y	3		0	6
from 2	4	6	0	From Z	4		6	0

# Problem 14:

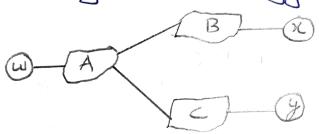
- (a) eBGP routing protocol will be used to learn about the prejix 'x'.
- (b) iBGP por rower 3 a
- (c) eBGP for rower 1c
- (d) iBGP for rower 1d

### Problem 17:

Consider 2e's view of the given topology



Consider w's view of the given topology.



From the Jigure we can say that

ix' is not aware of the link between AEC.

Since 'x' Obesn't reciwe an advertised take to w, or to 'y', that contain the AC link. Also, we can say that Jrom 'y' we can reach out to Node 'C' which inturn is ronnected to A.

There by establishing the link to w'.