Assignment 2

Name- Md. Tanzid Hossain

Id- 011 183 055

Course- Computer Network CSE 323

sec-B

- i) 500
- 11) 700
- iii) Within time out 2nd accknowledgement in minning in Host A.

 In this case It will neturn loso.

i new acknowlodgement in 1050.

- iv) will dow size was 2000 & Leatent aceknowledgement 500.

 ! last byte number in (2000+500) = 2500.
- v) 1450 ·

- i) Tep sbw stant at RTT -> 0-6,12-16

 Tep eorgentian availance at RTT -> 7-11, 17-27, 28-30
 - ii) packet lam in de-leeted via both timeart and thiple duplieste Acka.
 - 111) SS threshold change > 7 see New 35 thresh Value > 32.

next ss thmenh change > 11. \$ see next rew ssthrenh value > 16

next SS threnh Change > 17 See new SS threnh Value > 8

next ssthrenh Change -> 28 see new southnesh value -> 9 see

herre,

$$\frac{1520 - \frac{500}{f!2}}{0.f = 62.5}$$

$$\frac{1020 - \frac{500}{f.3}}{6.5} = 520$$

NOW,

Now, off seta,

- 1) Dentination Ip = 128.96.39.00001010

 herce, first 24 bits & 4th octate first bit matches with Int entry
 in the routing table so the next hop will be port 0.
- Destination Ip = 128.96.40.0000 1100

 here, first 24 bits & 4th octait bit matches with 3rd entry
 in the routing table. So next hopwill be -> R2
- Destination $I_p = 128.96.40.10010111$, matches none of the entries in the mouting table, so next hop $\Rightarrow R_1$
- Dentination Ip = 192.4.153.01011010, matchen none of the extrien in the routing table, so next hop > Rh

2 (e)

Step 1: Sourcee: 10.0.1.18 > Destination: 130,210,77,67

Step 2: Source: 135,122.205.207; Dentination: 130,210.77.67

Step 3! Source! 130.210.77.67; Destination! 135.122.205.207

5tep 4' Source: 130.210.77.67; Dentirotton: 10.0.1.18

2(9)

- 1) 1946
- ii) no
- iii) Ipv4
- iv) 116.4.105.237

$$3 - (a)$$

Step1: digkstnown table

	0(B) P(B) D(0) P(0)	D(E) D(E)	D(E) b(E)	D(2) p(4)
N, D(V) b(V)		s,e	60	8,6	00
1,0	2,6	5,0	6,A	8,€	00
2	2,0	-5,e	5,8	8,0	00
eA		316	_5,B	8, €	00
e ABC				-6, €	10, €
CABDA					-10, E
EABDE					
CABBEFC					
EABDEFAR					

For convent node A > pomible next node B, E D(B) = min) n/B) n/A) + e(A,B) 4 = 2, e

$$D(B) = min \{ D(B), D(A) + e(A,B) \} = 2.e$$

 $D(E) = min \{ D(E), D(A) + e(A,E) \} = 6.A$

for current rock B > pomible next node D, E

for, current node D > possible next node E, F

Forz, current node E > pomible nodes F, by

Fore, current node P > pomible next node \$

Step-2: Shontent path.

Dent	Deal - sne	Sne > Dot
A	A->e	e>A
В	B>e	$e \rightarrow B$
D	D>e	e>0
E	E > B + 6	e>B>E
F	t → E → B → 6	C>B>E>F
h	のうとつろうと	CABAEAF

Step 3! forwarding table

Dent	Next hop
A	A
В	B
©	D
D	B
£	D
F	В
h	В

first Step! initialize distance vector

١	1	A 1	6	3	0		D	3	F	,	G	\
A	1	5	-3	3	I	,	90	5	00		0	0
В		3	(0	2		3	3	00	20 C		×0
c	-	1		2	0		5	8	8		00	
D		Q		3	5		0	9	L	١	1	∞
E		5		3	S		4	Ó		١		5
F	=	Ø		00	8		4	١		0		∞
-	٦	00		00	a		∞	5		∞		0

Second Step! Dintance vector for node D