Exercise for the lecture

Wireless Sensor Networks

Summer 2016

Sheet 5

EXERCISE 6:
Consider the Distance Vector Routing protocol for the following network with four nodes and the given distances:
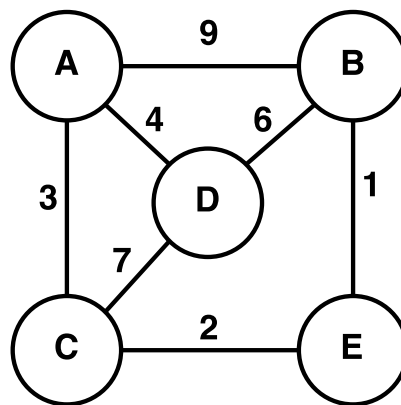

Figure 1: Distance Vector Protocol

1. Calculate the routing table entries for the routers.

2. What happens when router D fails? Calculate the new routing tables.

3. Now Router F appears with the following routing table. Now F advertises its routing table to B and B updates and sends it to F and so on. Compute the resulting routing table after each exchange.

F	via B	via G	via H
to B	3	-	-
to G	-	2	3
to H	-	4	1
to K	-	4	3

4. Draw the graph which can be deduced from all theses changes.