**MALIK ZOHAIB MUSTAFA**

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**BSCS-4B**

**DCN**

**Quiz 2**

**Question:**

Consider the network shown below, where the numbers on the edges indicate the cost of using that edge. For example, the cost of using the link from Router A to Router B is 1, whereas the cost of using the link from Router A to Router D is 4. Calculate the Routing table for all routers.

**Answer:**

|  |  |  |
| --- | --- | --- |
| **From A** | **Cost** | **Link** |
| A | 0 | Local |
| B | 1 | 1 |
| C | 3 | 1 |
| D | 3 | 1 |
| E | 2 | 1 |
| F | 4 | 1 |
|  |  |  |
| **From B** | **Cost** | **Link** |
| B | 0 | Local |
| A | 1 | 1 |
| C | 2 | 1 |
| D | 2 | 1 |
| E | 1 | 1 |
| F | 3 | 1 |
|  |  |  |
| **From C** | **Cost** | **Link** |
| C | 0 | Local |
| B | 2 | 1 |
| E | 1 | 1 |
| F | 1 | 2 |
| A | 3 | 1 |
| D | 2 | 1 |
|  |  |  |
| **From D** | **Cost** | **Link** |
| D | 0 | Local |
| A | 3 | 1 |
| E | 1 | 1 |
| B | 2 | 1 |
| C | 2 | 1 |
| F | 3 | 1 |
|  |  |  |
| **From E** | **Cost** | **Link** |
| E | 0 | Local |
| D | 1 | 1 |
| C | 1 | 1 |
| F | 2 | 1 |
| B | 1 | 1 |
| A | 2 | 1 |
|  |  |  |
| **From F** | **Cost** | **Link** |
| F | 0 | Local |
| C | 1 | 2 |
| E | 2 | 2 |
| D | 3 | 2 |
| A | 4 | 2 |
| B | 3 | 2 |