

**Name :Keyur Patel**

**Roll No : 16010421073**

**Batch : A2**

**Exp no -4(Inlab)**

| Day Number | Ending Inventory | Shortage Quantity | Order Quantity | Demand | Lead Time |
|------------|------------------|-------------------|----------------|--------|-----------|
| 1          | 3                | 0                 | 8              | 3      | 1         |
| 2          | 0                | 1                 | 1              | 1      | 1         |
| 3          | 3                | 0                 | 8              | 2      | 1         |
| 4          | 1                | 3                 | 2              | 4      | 1         |
| 5          | 3                | 0                 | 8              | 3      | 1         |
| 6          | 0                | 2                 | 2              | 2      | 2         |
| 7          | 3                | 0                 | 8              | 2      | 1         |
| 8          | 1                | 1                 | 0              | 2      | 2         |
| 9          | 3                | 0                 | 8              | 1      | 2         |
| 10         | 2                | 1                 | 0              | 3      | 1         |
| 11         | 3                | 0                 | 8              | 0      | 1         |
| 12         | 3                | 0                 | 0              | 1      | 2         |
| 13         | 3                | 0                 | 8              | 1      | 2         |
| 14         | 2                | 0                 | 0              | 1      | 1         |
| 15         | 3                | 0                 | 8              | 0      | 1         |
| 16         | 3                | 0                 | 0              | 2      | 3         |
| 17         | 3                | 0                 | 8              | 3      | 1         |
| 18         | 0                | 1                 | 1              | 1      | 1         |
| 19         | 3                | 0                 | 8              | 2      | 1         |
| 20         | 1                | 0                 | 0              | 1      | 2         |
| 21         | 3                | 0                 | 8              | 2      | 1         |
| 22         | 1                | 0                 | 0              | 1      | 3         |
| 23         | 3                | 0                 | 8              | 2      | 1         |
| 24         | 1                | 1                 | 0              | 2      | 1         |
| 25         | 3                | 0                 | 8              | 1      | 1         |

*Average ending inventory = 2.84*

*Average Shortage = 0.32*

*Average Demand = 1.56*

