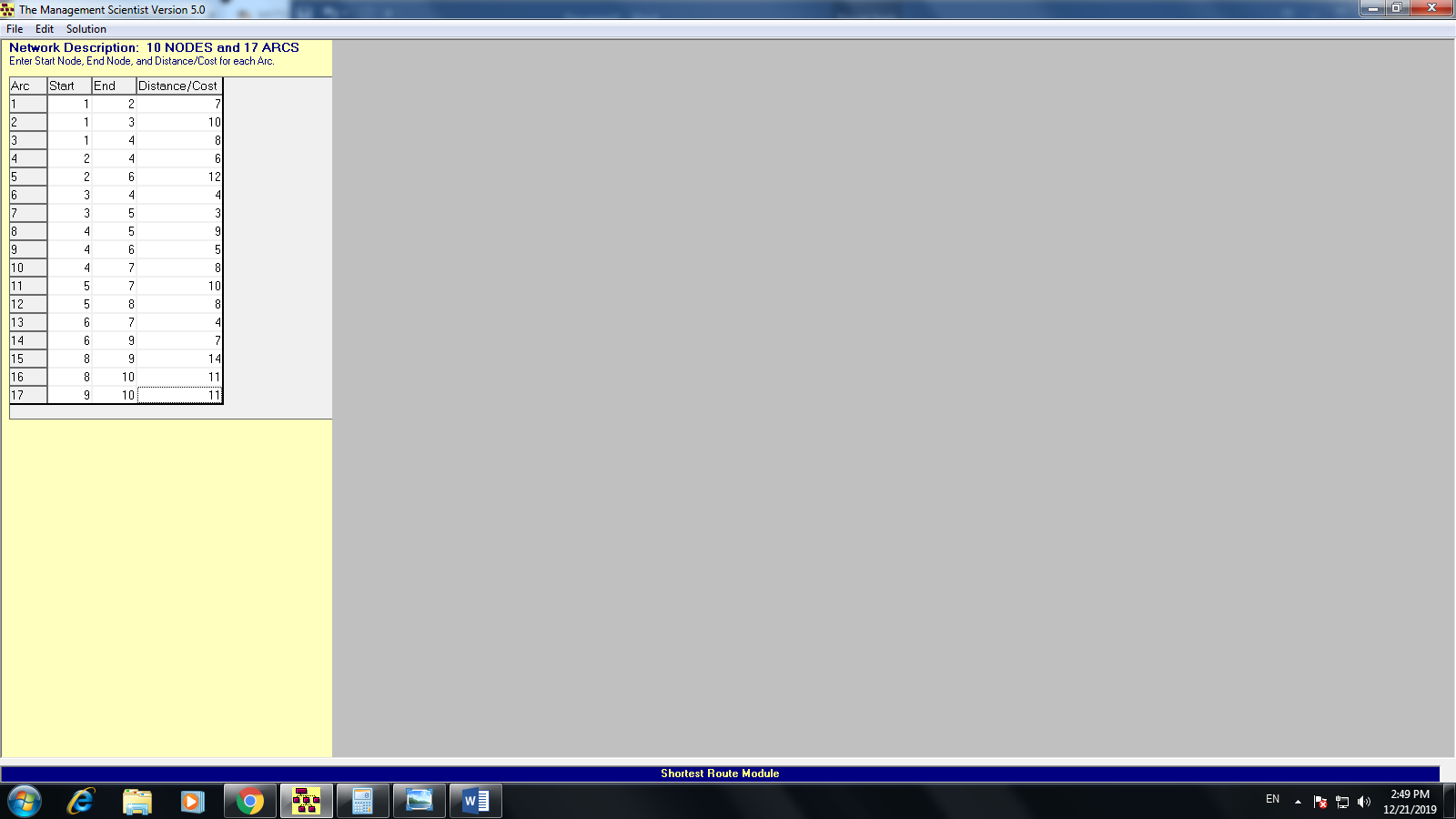
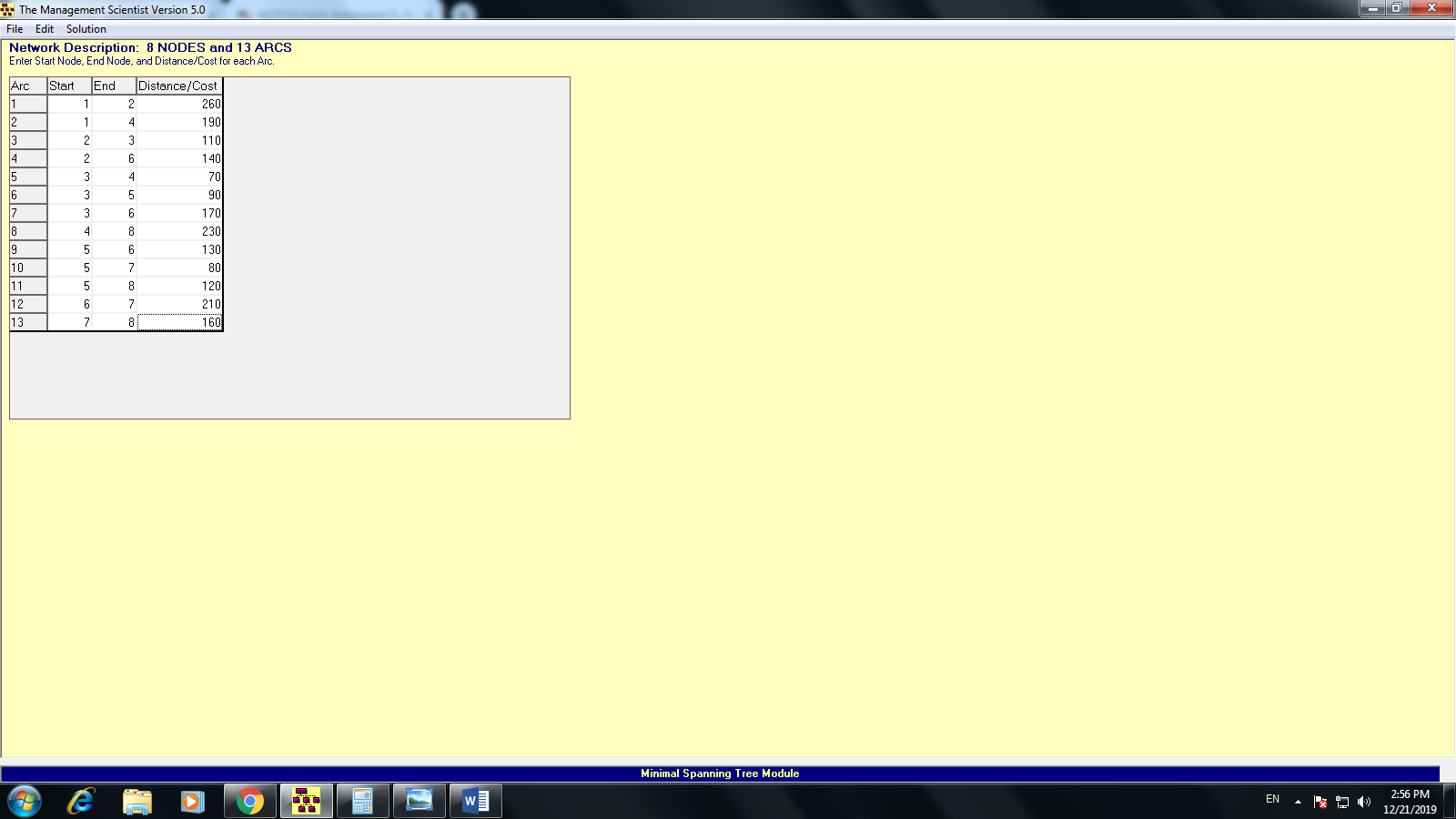
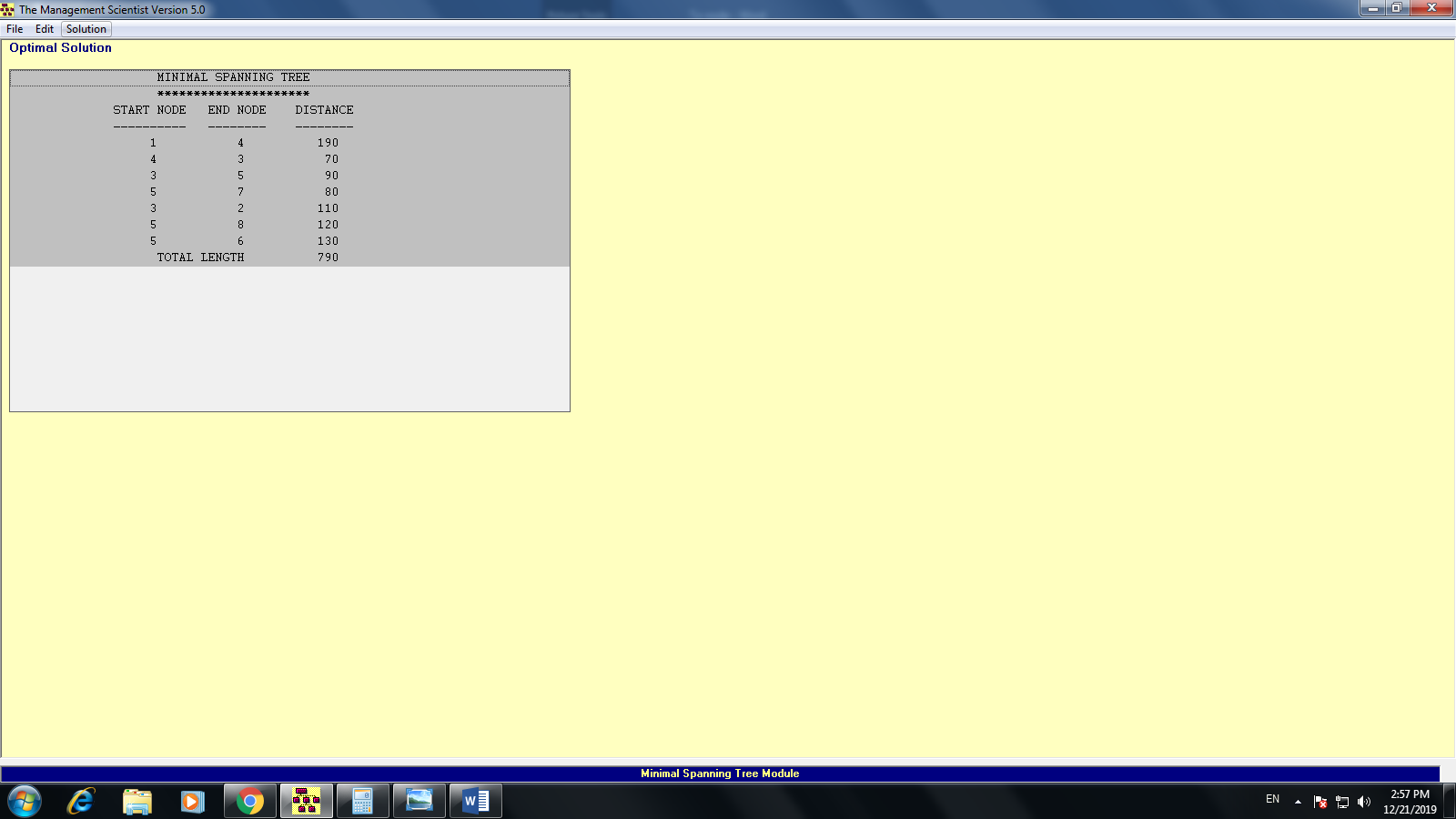
**Problem 1: Shortest Route**



|  |  |  |
| --- | --- | --- |
| To node | Shortest Route | Minimum distance in miles |
| 2 | 1 ------------ 2 | 7 |
| 3 | 1 ------------ 3 | 10 |
| 4 | 1 ------------ 4 | 8 |
| 5 | 1 ------ 3 ----5 | 13 |
| 6 | 1 ----- 4 ----- 6 | 13 |
| 7 | 1 ----- 4 ----- 7 | 16 |
| 8 | 1 ----- 3 --- 5 --- 8 | 21 |
| 9 | 1 ---- 4 ---- 6 ---- 9 | 20 |
| 10 | 1 ---- 4 --- 6 --- 9 ---- 10 | 31 |

**Problem 2: Minimal Spanning**





**Problem 3: Minimal Spanning**

