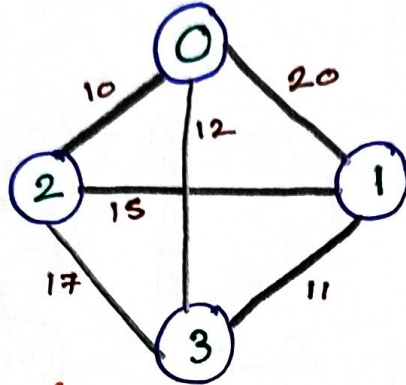


4, Solve the Travelling Sales man Problem using the following input and output.



Solution:-

Possibilities:-

- 1, $0 \rightarrow 1 \rightarrow 3 \rightarrow 2 \rightarrow 0 \Rightarrow 20 + 11 + 17 + 10$
- 2, $0 \rightarrow 1 \rightarrow 2 \rightarrow 3 \rightarrow 0 \Rightarrow 20 + 15 + 17 + 12$
- 3, $0 \rightarrow 2 \rightarrow 3 \rightarrow 1 \rightarrow 0 \Rightarrow 10 + 17 + 11 + 20$
- 4, $0 \rightarrow 2 \rightarrow 1 \rightarrow 3 \rightarrow 0 \Rightarrow 10 + 15 + 11 + 12$
- 5, $0 \rightarrow 3 \rightarrow 1 \rightarrow 2 \rightarrow 0 \Rightarrow 12 + 11 + 15 + 10$
- 6, $0 \rightarrow 3 \rightarrow 2 \rightarrow 1 \rightarrow 0 \Rightarrow 12 + 17 + 15 + 20$

1, $\Rightarrow 58$

2, $\Rightarrow 64$

3, $\Rightarrow 58$

4, $\Rightarrow 48$

5, $\Rightarrow 48$

6, $\Rightarrow 64$

\rightarrow These are the optimal solution.