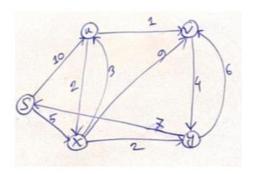
Dijkstra's Algorithm

⇒ Deals with non-negative edge weithts.

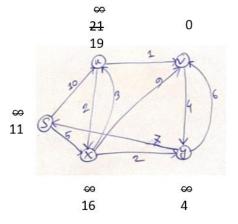
Example 1:



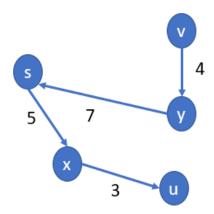
Source vertex: v

Solution:

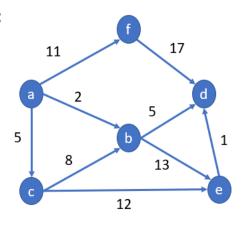
Visited Vertex	S	u	V	Х	У
initially	∞	8	0	8	∞
V	8	8	Cross	8	4
У	11	8		8	Cross
S	Cross	21		16	
х		19		Cross	
u		Cross			



Final Graph:



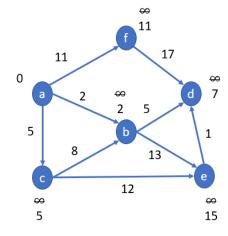
Example 2:



Source Vertex: a

Solution:

Visited Vertex	а	b	С	d	е	f
Initially	0	∞	∞	8	∞	∞
а	Cross	2	5	8	8	11
b		Cross	5	7	15	11
С			Cross	7	15	11
d				Cross	15	11
f					15	Cross
е					Cross	



Final Graph:

