| Crashing of project | 1 | tical paths] in opera | tions research:- by kauserv | Crash Cost (Rs.) | 0 * |
|---------------------|------------|-----------------------|-----------------------------|------------------|-----------|
| 1-2 | 7 | 700 | 4 | 850 | |
| 1-3 | 5 | 500 | 3 | 700 | |
| 1-4 | 8 | 600 | 5 | 1,200 auserwis | |
| 2-5 | 9 | 800 | 7 | 1,250 | |
| 3-5 | 5 | 700 | 3 | 1,000 | |
| 3-6 | 6 | 1,100 | 5 | 1,300 | - |
| 4-6 | 2 | 1,200 | 5 | 1,450 | |
| 5-7 | 2 | 400 | 1 | 500 | SUBSCRIBE |
| 6 N 7 1: | 03 / 28:47 | 500 | 2 | 850 | # |

| Crashing of proje | ect network with [| Two critical paths] in operat | tions research:- by k | auserwise i C A |
|-------------------|--------------------|-------------------------------|-----------------------|-----------------|
| 2-5 | 9 | 800 | 7 | 1,250 |
| 3-5 | 5 | 700 | 3 | 1,000 |
| 3-6 | 6 | 1,100 | 5 | 1,300 |
| 4-6 | 7 | 1,200 | 5 | 1,450 |
| 5-7 | 2 | 400 | J | 500 utorial |
| 6-7 | 3 | 500 | 2 | 850 |
| | | | | |

If the Indirect Cost-per week is Rs. 200, find the optimal Crashed Project- Completion time.

1:43 / 28:47

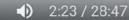




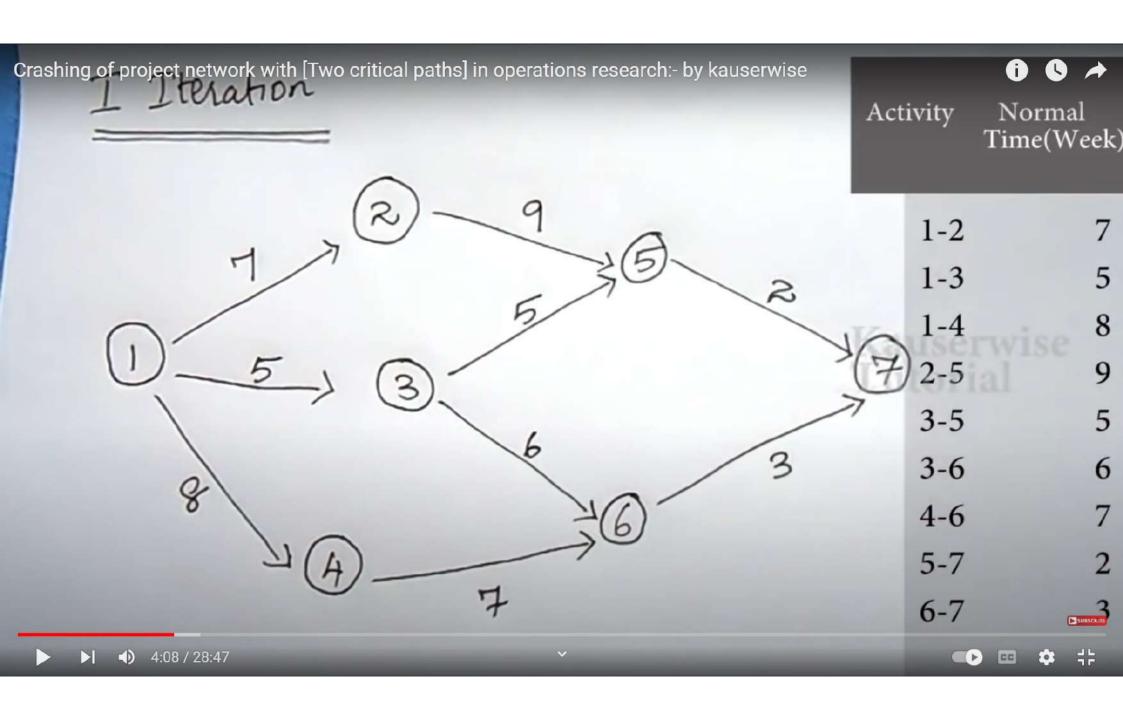








| Crashing of proje | ect network with [Two | critical paths] in op | erations research:- by ka | auserwisesh Cost | Slepas | * |
|-------------------|-----------------------|-----------------------|---------------------------|------------------|--------|-----------|
| 1 10,1119 | Time (Weeks) | Cost-(Rs.) | (Weeks) | (Rs.) | | |
| 1-2 | 7 | 700 | 4 | 850 | 50 | ľ |
| 1-3 | 5 | 500 | 3 | 700 | 100 | |
| 1-4 | 8 | 600 | 5 | 1,200 | 200 | 10 |
| 2-5 | 9 | 800 | 7 | 1,250 | 225 | |
| 3-5 | 5 | 700 | 3 | 1,000 | 150 | |
| 3-6 | 6 | 1,100 | 5 | 1,300 | 200 | |
| 4-6 | 7 | 1,200 | 5 | 1,450 | 125 | |
| 5-7 | 2 | 400 | 1 | 500 | 100 | |
| 6-7 | 3 | 500 | 2 | 850 | 350 | SUBSCRIBE |
| ▶ ▶ | :10 / 28:47 | | · | | ■ □ □ | 45 |





$$1 - 3 - 5 - 7 = 5 + 5 + 2 = 12$$

Normal Porject Comp. time, Bruces Critical path.

$$1-2-5-7$$
and
 $1-4-6-7$











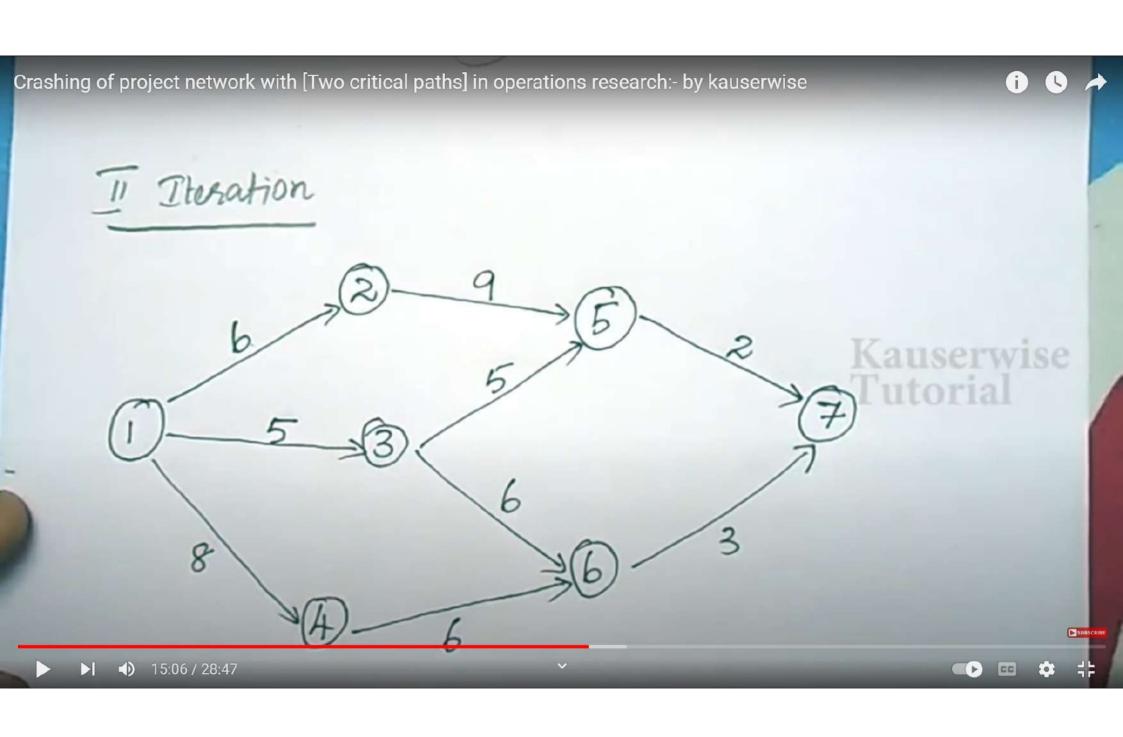
Normal Project Comp. time, 18 weeks Critical Parth. 1-2-5-7 1-4-6-7 Tutori6,500
Total Direct normal cost, 6,500
Indirect 60st 3,600
(200 x18)
10,100







| Crashing of project net | work with [Two c | eritical paths lin o | operations research: | by kauserwisenal Porject 1009 |
|------------------------------------|------------------|----------------------|----------------------|--|
| Critical path | Critical | Crash | Cost Slope | Critical Parth. |
| 1-2-5-7 | 1-2 | 3 | 50 × | 1-2-5-7 and |
| | 2-5 | 2 | 225 | 1-4-6-7 |
| | 5-7 | 1 | 100 | Total Direct normal |
| 1-4-6-7 | 1-4 | 3 | 200 | Induct 60St (200 X18) |
| | 4-6 | 2 | 125 x | |
| ▶ ▶ •) 14:24 / 2 8 | 28:47 | | 350 | Subscrine Compared to the com |











$$\sqrt{1-2-5-7} = 6+9+2 = 17$$
 $1-3-5-7 = 5+5+2 = 12$

Kanserwise Tutorial









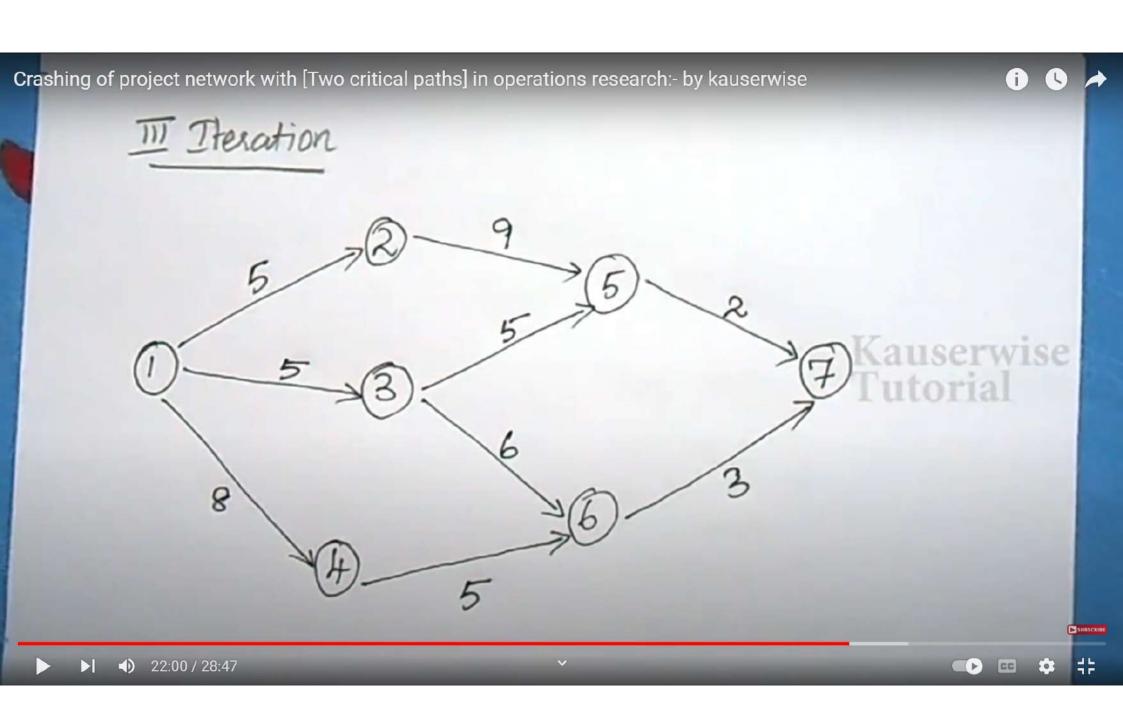


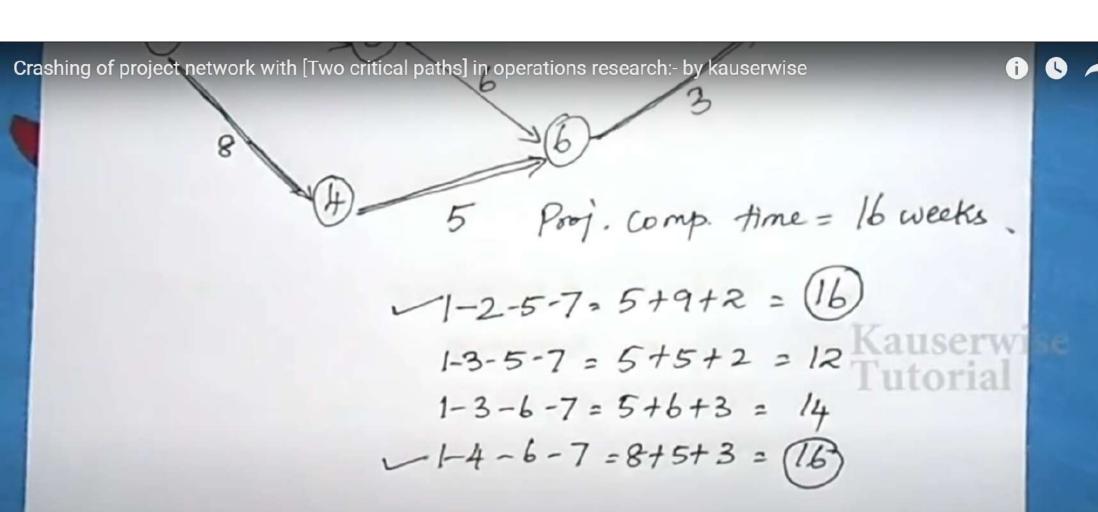




Parj- Comp. time = 17 weeks 1-4-6-7 Kauserwise 10,100 + [50+125] - 200 T. cost = 10,075

| Cr | ashing of project network | with Two critical pat | hs] in operations | research:- by kauserwise | i • |
|----|--------------------------------|-----------------------|-------------------|--------------------------|------------------------|
| ' | 1-2-5-7 | 1-2 | (2) | 50× | |
| | | 2-5 | 2 | 225 | |
| | | 5-7 | 1 | 100 | Kauserwise Tutorial |
| | 1-4-6-7 | 1-4 | 3 | 200 | |
| | | 4-6) | 1 | 125* | |
| _ | | 6-7 | 1 | 350 | SUBSCRIBE |
| | ▶ ♦ 1 • 1 21:32 / 28:47 | | ~ | | ■● □ ‡ ‡ |





T.C= pre.total cost + direct cost(slope cost) - indirect cost











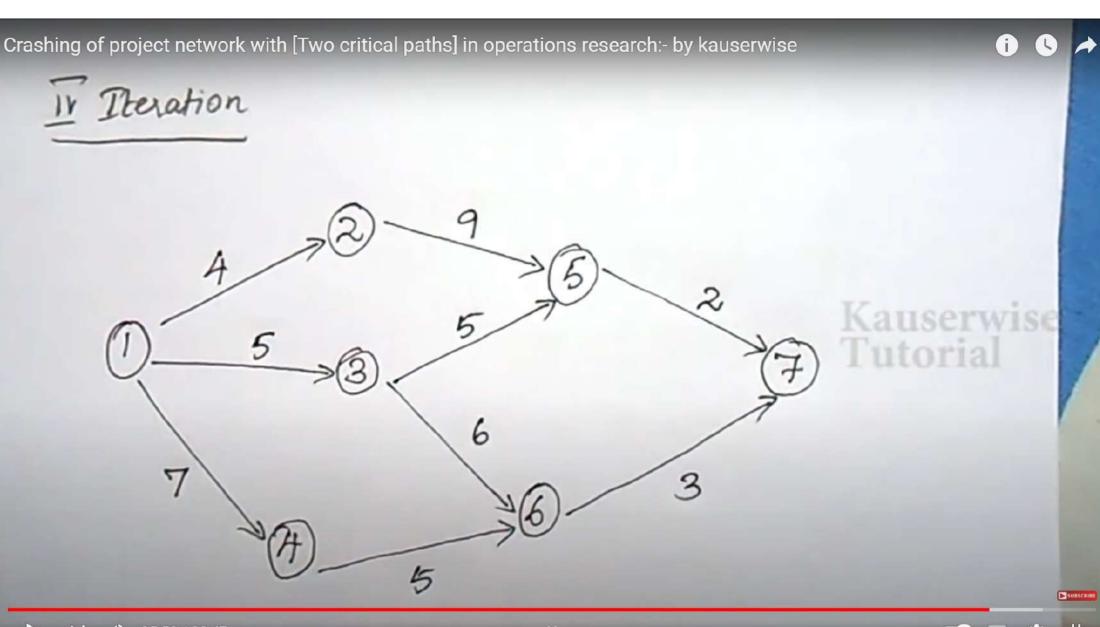




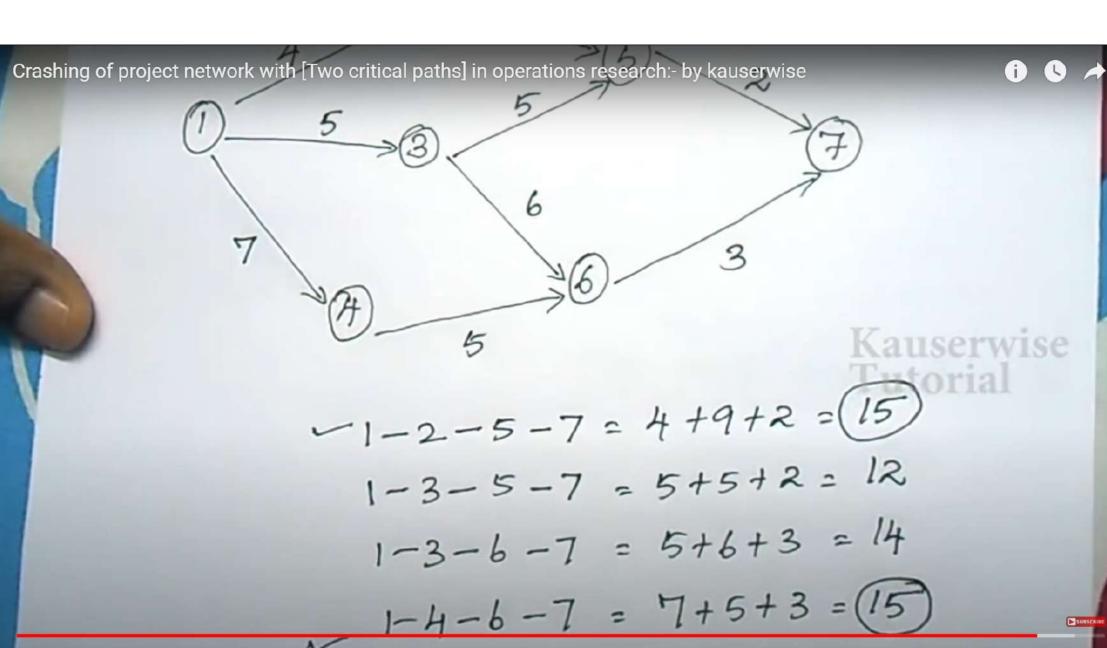
5 Proj. comp. time = 16 weeks

$$1-2-5-7=5+9+2=16$$
 $1-3-5-7=5+5+2=12$
 $1-3-6-7=5+6+3=14$ auserwise
 $1-4-6-7=8+5+3=16$
 $10.075+[50+125]-200$
 $10.050/$

| Crashing of project netwo | rk with [Two critica | l paths] in operatio | ns research:- by kauserwis | se i C |
|---|----------------------|----------------------|----------------------------|------------------------|
| poth | Critical | Crash Limit | Cost Slope | |
| 1-2-5-7 | 1-2 | | 50 X | |
| | 2-5 | 2 | 225 | Kauserwise Tutorial |
| | 5-7 | 1 | 100 | I ditorial |
| 1-4-6-7 | 1-4 | (3) | 200 * | |
| 7 | 4-6 | 0 | 200 * | |
| ▶ ▶ | 6-7 | 1 | 350 | Subschine Subschine |











Crashing of project network with [Two critical paths] in operations research:- by kauserwise Press | Esc | to exit full screen 1-2-5-7 and 1-4-6-7 10,050+ 250- 200 = 10,100 Final Result: Since the total Cost of the steration (IV) is more than that of the Previous steration Stop the procedure and treat the Solution of the PR / us Steration (III) as the best solution for imp//entation The final Crosshed Projec / 20 mpletion time is 16 weeks Corresponding Critical paths **▶ 4)** 28:23 / 28:47