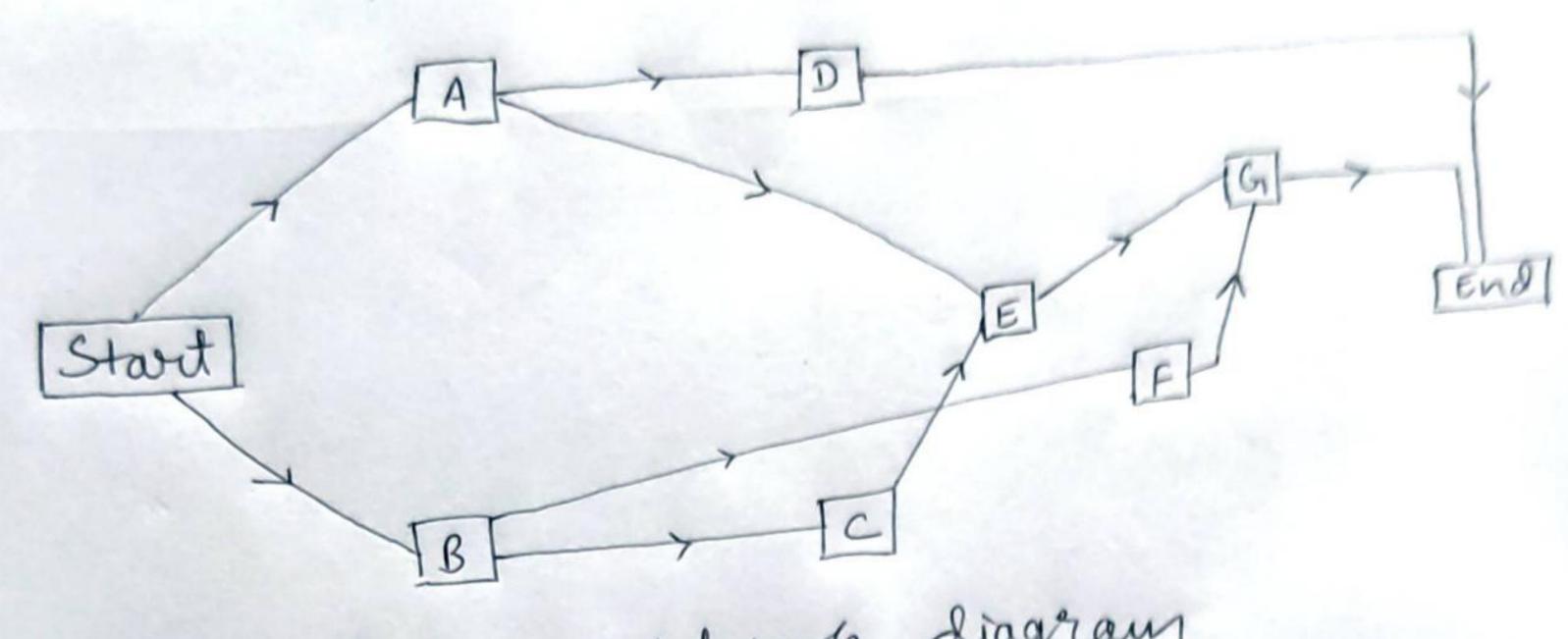
(2) (a) (i)



Activity Network diagram

Path 1: Start > A -> D-> End.

Path 2: Start > B > F > G > End.

Pathy: Start > B > C > E > G > End.

Pathy: Start > B > C > E > G > End.

(ii) Duration for Bath 1 = 4+12 = 16 days

Duration for Bath 2 = 5+9+4=18days

Duration for Bath 3=5+3+6+4=18days
Duration of path u= u+6+4=14days
Critical Bath is Bath. 38 Bath 2.

hence, slack time for all activities in Bath 223 is O. (b) Risk Reduction Lenerage (RRL) is defined as the difference between the Risk Exposure before and after the reduction activities divided by the cost of that a chivity. It measures the section on investment of the available sisk reduction techniques. Moderate of fire = 17. Loss from fire danage = 7100000 we know, Risk Exposure (RE) RE==Poobabitity (vo)x Lon(vo)

where VO is tinexpected outcome

Thus, RE old = 11.017.100000 2000000 X 1000000 tood = 20/000 pd Cost of installing fire alarm = 21000 chances of fire Lamage after alarm 100 1 30 30 50 5%. REnew = 0.5%. Of 7 1,00,000 = 1 × 100000 (39) 300 = 500 months ", RRL = REold-REnew Cost of reduction = 1000-500 - 1800

we know, if the RRL is less than one, it means the Rost of risk deduction activity outweight the brobable again from implemmentation.

Hence, as a team leader. I will hot go ahead with the installation of the fire alarm System gas

[RRL=0.5<1.]

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