d(A,B)=1

d(A,C)=1

cl(A,D)=1

d(A, E)=2

a(A,F)=2

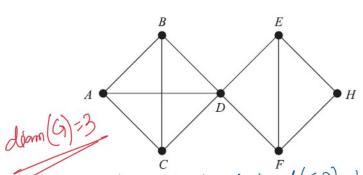
d(A,4)=3

Distance and Diameter :-

Distance :-

Let G be a Conneiled graph.

The distance box the vertices und is denoted by d(y,u) d(y,u) = He length q the shockest path between und u.



$$d(A,H)=3$$

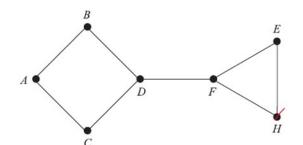
A-B-D-E-F-H = 6

A-B-C-D-F-E-H -6

A-D-E-H - 3

AD-E-F-H - (9)

$$d(B,C) = 1 d(C,D) = 1 d(C,E) = 2 d(C,F) = 1 d(C,$$



d(A,E)= 4

diam (G) = 4

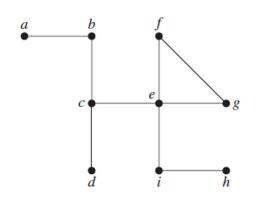
Diameter q the geath:

Let G be the Commercial geath.

The diameter q the geath G is desided

desided by diam (G)

The deameter of " fort" déam(G) = the maximum distance betren any paix q vertices. Cul vestices or cul points: Let G be a Connected geath. is disconnected. Then u ip p.l. 6 cut verten if (Ronory to veiler 2 and the associated cut edge of Bridge # Let G be a Connected grafor
Then e is & t.6 cut edge os The nog autvooties = 4



The nog convolves =  $\frac{4}{6}$ , 6, 6, e, eConvolves =  $\frac{4}{6}$ Convolves =  $\frac{4}{6}$   $\frac{6}{6}$ ,  $\frac{6}{6}$ ,  $\frac{1}{6}$   $\frac{6}{6}$ ,  $\frac{6}{6}$ ,  $\frac{1}{6}$