Quiz 8 irou Information Gain row 3 feature Infox (D)

age in	~ <u>e</u>	student	credit_rating	buys_computer
<=30 h		no	fair	no
<=30 h		no	excellent	no
>40 m	า	no	fair	yes
>40 lc		yes	fair	yes
3140		yes	excellent	yes
<=30 r	า	no	fair	no
<=30 I		yes	fair	yes
>40 r	า	yes	fair	yes
<=30 n	า	yes	excellent	yes
3140 hi		yes	fair	yes
>40 me	1	no	excellent	no

Info(D) = I(7,4)

Info age (1) = 
$$\frac{5}{11}$$
 1 (2,3) +  $\frac{2}{11}$  1 (2,0) +  $\frac{4}{11}$  1 (3,1)

Info credit\_rating (D) = 
$$\frac{4}{11}$$
 I (2,2) +  $\frac{7}{11}$  I (5,2)