Example of calculating Info(Attribute, T)

Race	Income	Insurance
Black	High	Yes
Black	High	No
Black	Low	No
Black	Low	No
White	Low	Yes
White	Low	Yes
White	High	Yes
White	High	No
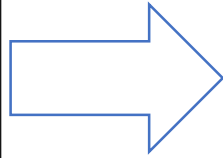
Race	Insurance
Black	Yes
Black	No
Black	No
Black	No
White	Yes
White	Yes
White	Yes
White	No
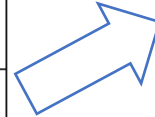
Race	Insurance
Black	Yes
Black	No
Black	No
Black	No
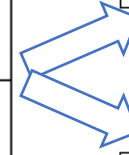
Race	Insurance
Black	No
Black	No
Black	No

Race	Insurance
Black	Yes

Race	Insurance
White	Yes
White	Yes
White	Yes
White	No
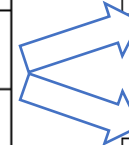
Race	Insurance
White	No

Race	Insurance
White	Yes
White	Yes
White	Yes

Using groupby function, we can divide the original dataframe into small dataframes by values of specified attribute or class column as showing in the example. Subsequently, we just need to take the lengths of those small dataframes (number of rows) as frequency elements in order to calculate Info(Attribute, T) based on the formula in lecture note. Procedure is stated in the source codes