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# 1) Create a function which takes vector as an input and
# return sine of those values

# 2) Take data set CustomerData1 and remove NA values and store that
# into variable mydata. Check structure of the data

# 3) First column is not useful, so remove it and store result
# back into variable mydata

# 4) Convert the variable City into factor

# 5) For mtcars dataset, find mean of hp for each group of
# gear. Use tapply function

# 6) Plot histogram of variable Revenue in mydata

# 7) Create dummy variables for City which has been converted
# into a factor. Put the dummy variables and other variables
# in dataframe mydata2

# 8 ) Remove original City variable from the mydata2

# 9) Use discretize function from infotheo library and
# use it to discretize Revenue variable in 5 bins. Use
# equalfreq as value for the parameter disc

# 10) Use tapply function to get the median of each of the 5 bins
# of Revenue
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