PROJECT2: WRANGLING AND ANALYZE DATA

ANALYZE AND VISUALIZATION

- 1. Proportions of tweet per prediction model
 - Write function pie plot(data, labels) which plot a pie graph
 - Create a list of number of tweet_id per image number and call pie_plot() function
- 2. Proportions of tweet per dog stage
 - Create a list which contain number of tweet for each dog stage
 - Call pie plot function
- 3. Description of retweet count and favorite count per dog stage
 - > Extract rows from twitter archive master table for each dog stage
 - Extract rows from twitter_archive_master table for tweet which have multiple_stages to create multipleStage dataframe
 - Write function named AppendValue (multipleStage_tweet, dog_stage_num, initialArr, prop) to append property values for tweet_id with multiple dog stage
 - Dog_stag_ num is number of dog stage in an array of four elements where each element equalled to 0 or 1(first element represents doggo, second element represents puppo, third element represents pupper, and fourth element represents floofer)
 - initialArr is array to append new value
 - prop is property to find value to append
 - write function named SumBoxPlot(param, stop, step) to plot box-plots for distributions of retweet count and favourite count
 - param is retweet count or favorite count
 - stop is end of x-labels
 - step is difference between two consecutive labels
 - call SumBoxPlots('retweet count', 80000, 2000) and interpreting result:
 - floofer dog stage has a larger average of retweet_count(about 4000)
 - for floofer dog stage, retweet_count max is 4000
 (retweet count average is 4000)
 - for pupper dog stage, retweet_count max is 5000
 (retweet count average is 1000)
 - for puppo dog stage, retweet_count max is 9000
 (retweet_count average is 3000)

- for doggo dog stage, retweet_count max is 6000 (retweet_count average is 3000)
- SumBoxPlots('favorite count', 80000, 2000) and interpreting result :
 - floofer and puppo dog stages has a larger average of favorite_count(about 10000)
 - for floofer dog stage, favorite_count max is 26000
 (favorite_count average is 10000)
 - for pupper dog stage, favorite_count max is 12000 (favorite_count average is 2000)
 - for puppo dog stage, favorite_count max is 28000 (favorite_count average is 10000)
 - for doggo dog stage, favorite_count max is 28000 (favorite_count average is 8000)
- 4. Description of rating_numerator and rating_denominator per dog stage
 - Reuse AppenValue function
 - Write function named SumBoxPlots2(param) to plot box plots for distributions of rating numerator and rating Denominator
 - Param is rating_numerator or rating_denomination
 - ➤ Call SumBoxPlots2('rating numerator') and interpreting result graph:
 - for floofer dog stage, rating numerator min is 10 and rating numerator max is 13(rating numerator average is 12)
 - for pupper dog stage, rating numerator min is 7 and rating numerator max is 14(rating numerator average is 11)
 - for doggo dog stage, rating numerator min is 8 and rating numerator max is 14(rating numerator average is 12)
 - for puppo dog stage, rating numerator min is 9 and rating numerator max is 14(rating numerator average is 13)
 - > Call SumBoxPlots2('rating denominator') and interpreting result graph:
 - rating denominator is always equal to 10.0