SECTION 1

def main()

Description: runs the whole program and organizes all of the functions

Parameters: none Output: none

Calls: load_data(), calculate_flipper_percentages(), calculate_island_averages(), & write_report()



SECTION 2

load_data(csv_file_path)

Description: imports penguins.csv and cleans the data and creates list of dictionaries

Parameters: csv_file_path (string)

Output: penguin_data (list of dictionaries)

Called by: main()



calculate_flipper_percentages()

Description: calculates percentage of each species and sex with a flipper length > 200mm

Parameters: data (list of dictionaries)

Output: flipper_results (dictionary)

Called by: main()



SECTION 4

calculate_island_averages()

Description: calculates average bill length and bill depth for the island chosen

Parameters: data (list of dictionaries), chosen_island (string)

Output: island_results (dictionary)

Called by: main()



SECTION 5

write_report()

Description: writes all of the calculated results to a .txt file

Parameters: flipper_results (dictionary), island_results (dictionary), output_file_path (string)

Output: none Called by: main()

Helper function: get_percentage() otion: groups data by species

Description: groups data by species or sex and counts flipper lengths > 200mm Parameters: group_key (string), data (list of dictionaries), min_flipper_length (int) Output: group_percentages (dictionary) Called by: calculate_flipper_percentages)