name_list = extract_names(Birthday_book)
print("Sorted List of Friends' Names: ", name_list)

AED_dict = replace_months_with_AED(Birthday_book)
print("Birthday Book with AED amounts: ", AED_dict)

4. References

The references for your work go here

Original Birthday Book: {'Sarah': 4, 'Sara': 6, 'Lara': 10, 'Zara': 12, 'Nara': 3}
Birthday Book with incremented months: {'Sarah': 5, 'Sara': 7, 'Lara': 11, 'Zara': 13, 'Nara': 4}
Sorted List of Friends' Names: ['Lara', 'Nara', 'Sara', 'Sarah', 'Zara']
Birthday Book with AED amounts: {'Sarah': 400, 'Sara': 600, 'Lara': 1000, 'Zara': 1200, 'Nara': 300}

1. Question 1

1a. Step-By-Step Algorithm

For each problem, write each step of the algorithm you are proposing to solve the assignment problem here.

calculate_cost_1_20, calculate_cost_21_50, and calculate_cost_51_100.

2.Each function will take the number of guests as an argument.

1.Define three functions to calculate the total food cost for each of the three cases:

3.Calculate the total cost by multiplying the number of guests with the cost per guest.