Lab 6 - Nagode Klei

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def main():

    file_name = input("Enter the file name: ")

    my_dictionary = {}

    age_dict = {}



    with open(file_name) as my_file:

        content = my_file.readlines()

        name_list = [x.strip() for x in content]



        i = 0

        while i < len(name_list):

            if name_list[i].isdigit():

                age = name_list[i]

                i += 1

                names = [name_list[i]]

                i += 1

                while i < len(name_list) and not name_list[i].isdigit():

                    names.append(name_list[i])

                    i += 1
```

```
                if age in age_dict:
                    age_dict[age].extend(names)
                else:
                    age_dict[age] = names

        for age, names in age_dict.items():
            if len(names) > 1:
                combined_names = " and ".join(names)
                my_dictionary[age] = combined_names
            else:
                my_dictionary[age] = names[0]

    # Sorting dictionary by age in descending order
    sorted_dict = dict(sorted(my_dictionary.items(), key=lambda x: int(x[0]),
reverse=True))

    # Writing sorted dictionary to output_age_group.txt
    with open("output_age_group.txt", "w") as age_group_file:
        for age, names in sorted_dict.items():
            age_group_file.write(f"{age}: {names}\n")

    # Extracting names from dictionary
    all_names = [names.split(" and ") if " and " in names else [names] for names in
sorted_dict.values()]
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    all_names = [name for sublist in all_names for name in sublist]


    # Sorting names in reverse alphabetical order
    all_names.sort(reverse=True)


    # Writing sorted names to output_names.txt
    with open("output_names.txt", "w") as names_file:
        for name in all_names:
            names_file.write(f"{name}\n")


    print("Output files generated successfully...")


if __name__ == "__main__":
    main()
```

Output 1

30: Joseph
25: Jacob
20: Jonathan
15: Joe
10: John and Lydia

Output 2

Lydia
Joseph
Jonathan
John

Joe
Jacob