Project 2 – Username Generator using Lists, Tuples, Sets, and Dictionaries - 30 points possible

Project Requirements

Name of program file:	username_generator.py
Description of program:	This program will test your knowledge of concepts from both week 1 and week
	2. You will learn about and work with Lists, Tuples, Dictionaries and Sets while
	continuing to build your knowledge of strings, numbers, and comments.
	This program will use 3 different list (that you will create) that contain
	information about employees.
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	This program will take input from 3 different list that you create.
	The first list will contain 5 first names, the second list will contain 5 last names,
	and the third list will contain 5 birth years.
	These lists will be combined and then used to create a unique username. You
	will remove any duplicate usernames (you must have at least one in the original list). You will also create a dictionary to store the username in as a key
	with the combined employee data created in the combination process.
	You must use lists, a tuple, a set and a dictionary.
Program Requirements:	The program MUST follow the input, process, output model
	described in the syllabus video and the introduction to
	programming pdf. You MUST follow the structure outlined or
	you will lose points.
	This program will read the impact statements for programs and
	This program will need the import statements for username and today's date.
	today 3 date.
	This program must have a flower box comment section with your
	name, date created, and description of the program (FYI: Not
	My Description from Above)
	Input section:
	List of employees' first names
	List of employees' last names
	List of employees' birth years
	Each list should have at least 5 elements
	Process section:
	Combine all data for processing hint zip()
	Within a for in loop do the following:
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	 Use that information to create employee usernames in the following format: first initial last name year of birth i.e. Dale Fontenot 1963 = dfontenot63 Store the usernames in a list Store the combined employee information in a dictionary with the username as the key
	Remove any duplicate usernames hint: set() Convert the set back to a list
	Within a for in loop do the following: • Make a copy of the username list without the duplicates
	Output section:
	You must then output the following information in this order:
	Username Today's Date
	All Zip data Username list with all usernames (even the duplicates) Username set
	Username list with no duplicates Employee data dictionary Username list that has been sorted
What to turn in:	Take a screen shot of your RUNNING program Upload the screen shot and the py file to blackboard as TWO separate files.

Assignment Template

```
assignment_template.py
    #Import Section
     from datetime import date  #import this for Date
    import getpass
                              #import this for User
    #Flower Box Section
 8
    q
10
    # Name: Dale Fontenot
11
    # Date: 01/23/2022
12
    # Program Description:
     # Describe as completely as possible
15
    # what the program does including what inputs, processes
    # and outputs
16
17
    18
19
20
     #Variables section
21
22
       #All variables needed for will be declared here
23
    #Functions section
       #Starting on project 4 all functions created will be in this section
26
28
    #Input section
29
         #All input logic will be in this section
30
        #Make sure to use line comments to fully explain the inputs
31
32
33
34
    #Process section
35
         #All processing of user input and calculations will be in this section
       #Make sure to use line comments to fully explain how the data is being processed
39
     #Output section
40
41
         \# Your \mid J Sername \ and \ Today's \ Date \ will \ be \ in \ this \ section \ and \ ALWAYS \ First
42
43
         #All output in the form of print functions will be in this section
44
         #Make sure to use line comments to fully explain what is being displayed and how it is formatted
45
```

Input

```
first_name_list = ["Dale","Debbie","John","Dave","Mike"]
last_name_list = ["Fontenot","Fontenot","Doe","Dane","Roberts"]
year born list = ["1963","1963","1965","1966","1967"]
```

Output

```
dfontenot
2022-01-24
[('Dale', 'Fontenot', '1963'), ('Debbie', 'Fontenot', '1963'), ('John', 'Doe', '1965'), ('Dave', 'Dane', '1966'), ('Mike', 'Roberts', '1967')]
['dfontenot63', 'dfontenot63', 'imroberts67', 'ddane66', 'mroberts67']
{'jdoe65', 'dfontenot63', 'mroberts67', 'ddane66'}
['jdoe65', 'dfontenot63', 'mroberts67', 'ddane66']
{'dfontenot63': ('Debbie', 'Fontenot', '1963'), 'jdoe65': ('John', 'Doe', '1965'), 'ddane66': ('Dave', 'Dane', '1966'), 'mroberts67': ('Mike', 'Roberts', '1967')}
['ddane66', 'dfontenot63', 'jdoe65', 'mroberts67']
```