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Midterm Task 5

Creating Class and Instantiating Objects in Python

Problem 1. Users in Social Media

a. Create User Class with the ff: attributes (Use Constructor for this)

- first_name
- last_name
- followers_count
- friends_name [LIST]

Note: You can make a List an attribute of a class

b. Create the ff: methods

- introduce_self – which should output “ Hi I am {first_name} {last_name}
- view_full_profile – which outputs all the information of the user as shown below

Profile Name is Bradd Pitt with 10 followers

Friend are... Juan Pedro Jose

c. Create a separate TestUser class to test if the program is working as expected, allowing for user input to be passed as parameters of the object. Create atleast 2 object instance to test the class template

Sample Output 1:

Insert a Record?[y|n]:y

First Name: Bradd

Last Name: Pitt

Followers:10

Friends:

Juan

Pedro

Jose

Insert a Record?[y|n]:y

First Name: Tom

Last Name: Cruise

Followers:100

Friends:

Juan

Pedro

Jose

Insert a Record?[y|n]:n

Here are the Records....

Hi I am Bradd Pitt

Profile Name is: Bradd Pitt with 10 followers

Your friends are: Juan Pedro Jose

Hi I am Tom Cruise

Profile Name is: Tom Cruise with 100 followers

Your friends are: Juan Pedro Jose

There are currently 2 Members in the Social Media page

Rubric:

1. Completeness of the code requirements – 10
2. Correctness of the expected input and output - 10
3. Use of proper naming conventions – 5

```
1 class User:
2     def __init__(self, first_name, last_name, followers_count, friends_name):
3         self.first_name = first_name
4         self.last_name = last_name
5         self.followers_count = followers_count
6         self.friends_name = friends_name
7
8     def introduce_self(self):
9         print(f"Hi I am {self.first_name} {self.last_name}")
10
11    def view_full_profile(self):
12        print(f"Profile Name is: {self.first_name} {self.last_name} with {self.followers_count} followers")
13        print("Your friends are:", " ".join(self.friends_name))
14
15
16 class TestUser:
17     def __init__(self):
18         self.users = []
19
20     def add_user(self):
21         while True:
22             choice = input("Insert a Record?[y|n]: ").lower()
23             if choice == 'n':
24                 break
25             elif choice == 'y':
26                 first_name = input("First Name: ")
27                 last_name = input("Last Name: ")
28                 followers = int(input("Followers: "))
29                 print("Friends:")
30                 friends = []
31                 while True:
32                     friend = input()
33                     if friend == "":
34                         break
35                     friends.append(friend)
36
37                 user = User(first_name, last_name, followers, friends)
38                 self.users.append(user)
39             else:
40                 print("Invalid input, please enter y or n.")
41
42     def display_all(self):
43         print("\nHere are the Records...")
44         print()
45         for user in self.users:
46             user.introduce_self()
47             user.view_full_profile()
48             print()
49         print(f"There are currently {len(self.users)} Members in the Social Media page")
50
51
52 if __name__ == "__main__":
53     test = TestUser()
54     test.add_user()
55     test.display_all()
56
```



Insert a Record?[y|n]: y

First Name: Bradd

Last Name: Pitt

Followers: 10

Friends:

Juan

Pedro

Jose

Insert a Record?[y|n]: y

First Name: Tom

Last Name: Cruise

Followers: 100

Friends:

Juan

Pedro

Jose

Insert a Record?[y|n]: n

Here are the Records...

Hi I am Bradd Pitt

Profile Name is: Bradd Pitt with 10 followers

Your friends are: Juan Pedro Jose

Hi I am Tom Cruise

Profile Name is: Tom Cruise with 100 followers

Your friends are: Juan Pedro Jose

There are currently 2 Members in the Social Media page