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C203

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

Code:

```
main.py User.py TestUser.py +
1 class User:
2     total_users = 0
3
4     def __init__(self, first_name, last_name, follower_count, friend_name):
5         self.first_name = first_name
6         self.last_name = last_name
7         self.follower_count = follower_count
8         self.friend_name = friend_name
9         User.total_users += 1
10
11     def introduce_self(self):
12         print(f"Hi I am {self.first_name} {self.last_name}")
13
14     def view_full_profile(self):
15         print(f"Profile Name is {self.first_name} {self.last_name} with {self.follower_count} followers")
16         print(f"Your friends are:", ", ".join(self.friend_name))
```

```
main.py User.py TestUser.py X +
1 from User import User
2
3 class TestUser:
4     def __init__(self):
5         self.records = []
6
7     def main(self):
8         while True:
9             choice = input("Insert a Record?[y/n]: ")
10            if choice.lower() == "y":
11                first_name = input("First Name: ")
12                last_name = input("Last Name: ")
13                followers = int(input("Followers: "))
14                print(f"Friends (x to stop):")
15                friends = []
16                while True:
17                    friend = input()
18                    if friend.lower() == "x":
19                        break
20                    friends.append(friend)
21
22                user = User(first_name, last_name, followers, friends)
23                self.records.append(user)
24
25            elif choice.lower() == "n":
26                break
27            else:
28                print("Invalid")
29
30        print("\nWhere are the Records...")
31        for user in self.records:
32            user.introduce_self()
33            user.view_full_profile()
34
35        print(f"There are currently {len(self.records)} Members in the Social Media Page")
36
37
38
39 if __name__ == "__main__":
40     app = TestUser()
41     app.main()
```

Output:

```
Run Share $ Command Line Arguments
Insert a Record?[y|n]: y
First Name: Bradd
Last Name: Pitt
Followers: 10
Friends (x to stop):
> Juan
> Pedro
> Jose
x
Insert a Record?[y|n]: y
First Name: Tom
Last Name: Cruise
Followers: 100
Friends (x to stop):
> Juan
> Pedro
> Jose
x
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

** Process exited - Return Code: 0 **
[]
```