

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

Rubric:

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

Code:

```
class User:
    user_count = 0

    def __init__(self, first_name, last_name, followers_count, friends_name):
        self.first_name = first_name
        self.last_name = last_name
        self.followers_count = followers_count
        self.friends_name = friends_name
        User.user_count += 1

    def introduce_self(self):
        print(f"Hi I am {self.first_name} {self.last_name}")
```

```
    def view_full_profile(self):
        print(f"Profile Name is: {self.first_name}
{self.last_name} with {self.followers_count} followers")
        print("Your friends are: " + ',
'.join(self.friends_name))
        print()

class TestUser:
    def __init__(self):
        self.users = []

    def run(self):
        while True:
            insert = input("\nInsert a Record?[y|n]: ")
            if insert.lower() != 'y':
                break

            first_name = input("\nFirst Name: ")
            last_name = input("Last Name: ")
            followers_count = int(input("Followers: "))
            friends = []
            print("Enter friends one by one. Type 'done' when
finished:")
            while True:
                friend = input()
                if friend.lower() == 'done':
                    break
                if friend.strip():
                    friends.append(friend.strip())

            user = User(first_name, last_name, followers_count,
friends)
            self.users.append(user)

            print("\nHere are the Records...")
            for user in self.users:
                user.introduce_self()
                user.view_full_profile()

            print(f"There are currently {User.user_count} Members in
the Social Media page")

test = TestUser()
test.run()
```

Outputs:

```
Insert a Record?[y|n]: y
```

```
First Name: Justine
```

```
Last Name: Tayting
```

```
Followers: 6767
```

```
Enter friends one by one. Type 'done' when finished:
```

```
Enzo
```

```
Almea
```

```
Noel
```

```
done
```

```
Insert a Record?[y|n]: y
```

```
First Name: Enzo
```

```
Last Name: Bulanadi
```

```
Followers: 6969
```

```
Enter friends one by one. Type 'done' when finished:
```

```
Justine
```

```
Blaine
```

```
Jessie
```

```
done
```

```
Insert a Record?[y|n]: n
```

```
Here are the Records...
```

```
Hi I am Justine Tayting
```

```
Profile Name is: Justine Tayting with 6767 followers
```

```
Your friends are: Enzo, Almea, Noel
```

```
Hi I am Enzo Bulanadi
```

```
Profile Name is: Enzo Bulanadi with 6969 followers
```

```
Your friends are: Justine, Blaine, Jessie
```

```
There are currently 2 Members in the Social Media page
```