

## Midterm Lab Task #5

### Sample Problem:

#### 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

#### Source Code:

```
1  # Midterm Lab Task #5
2
3  class User:
4      def __init__(self, first_name, last_name, followers_count, friend_name):
5          self.first_name = first_name
6          self.last_name = last_name
7          self.followers_count = followers_count
8          self.friend_name = friend_name
9
10     def introduce_self(self):
11         print(f"Hi I am {self.first_name} {self.last_name}")
12
13     def view_full_profile(self):
14         print(f"Profile Name is: {self.first_name} {self.last_name} with {self.followers_count} followers")
15         print("Your friends are:", " ".join(self.friend_name))
16         print()
17
18
19 class TestUser:
20     def __init__(self):
21         self.users = []
22
23     def add_user(self):
24         while True:
25             choice = input("Insert a Record? [Y/N]: ").upper()
26             if choice == "N":
27                 break
28             elif choice == "Y":
29                 first_name = input("First Name: ")
30                 last_name = input("Last Name: ")
31                 followers_count = int(input("Followers: "))
32
33                 friend_name = []
34                 print("Enter 3 Friends:")
35                 for i in range(3):
36                     friend = input(f"Friend {i + 1}: ")
37                     friend_name.append(friend)
38
39                 new_user = User(first_name, last_name, followers_count, friend_name)
40                 self.users.append(new_user)
41             else:
42                 print("Invalid Input. Try Again.")
43
44     def display_all_users(self):
45         print("\n---- USER RECORDS ----")
```

```

46  ✓   for user in self.users:
47      │       user.introduce_self()
48      │       user.view_full_profile()
49      │   print(f"There are currently {len(self.users)} Members in the Social Media page\n")
50
51  ✓  def main():
52      │       test_user = TestUser()
53      │       test_user.add_user()
54      │       test_user.display_all_users()
55
56      │   # Main
57  ✓  if __name__ == "__main__":
58      │       main()
59

```

Sample Output:

```

Insert a Record? [Y/N]: Y
First Name: Lian
Last Name: Mechure
Followers: 3000
Enter 3 Friends:
Friend 1: Maurey
Friend 2: Aaron
Friend 3: Andrew
Insert a Record? [Y/N]: Y
First Name: Andrew
Last Name: Arcilla
Followers: 4500
Enter 3 Friends:
Friend 1: Sean
Friend 2: Lian
Friend 3: Whey
Insert a Record? [Y/N]: N

---- USER RECORDS ----
Hi I am Lian Mechure
Profile Name is: Lian Mechure with 3000 followers
Your friends are: Maurey, Aaron, Andrew

Hi I am Andrew Arcilla
Profile Name is: Andrew Arcilla with 4500 followers
Your friends are: Sean, Lian, Whey

There are currently 2 Members in the Social Media page

```