

Midterm Task 5

Creating Class and Instantiating Objects in Python

Problem:

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

Code:

```
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
13-             .followers_count} followers")
14-         print("Your friends are:", " ".join(self.friends_name))
15-         print()
16-
17- class TestUser:
18-     def __init__(self):
19-         self.users = []
20-
21-     def add_user(self):
22-         first_name = input("First Name: ")
23-         last_name = input("Last Name: ")
24-         followers_count = int(input("Followers: "))
25-         friends = []
26-
27-         print("Friends:")
28-         while True:
29-             friend = input()
30-             if friend == "":
31-                 break
32-             friends.append(friend)
33-
34-         user = User(first_name, last_name, followers_count, friends)
35-         self.users.append(user)
36-
37-     def display_records(self):
38-         print("\nHere are the Records...\n")
39-         for user in self.users:
40-             user.introduce_self()
41-             user.view_full_profile()
42-         print(f"There are currently {len(self.users)} Members in the Social Media page")
43-
44-
45- def main():
46-     test = TestUser()
47-
48-     while True:
49-         insert = input("Insert a Record? [y|n]: ").lower()
50-         print()
51-         if insert == 'y':
52-             test.add_user()
53-         elif insert == 'n':
54-             break
55-         else:
56-             print("Invalid input, please enter 'y' or 'n'.")
57-
58-     test.display_records()
59-
60-
61- if __name__ == "__main__":
62-     main()
63-
64-
```

Output:

Output

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

```
First Name: Whey
```

```
Last Name: Ogania
```

```
Followers: 7824
```

```
Friends:
```

```
Zayn
```

```
Liam
```

```
Niall
```

```
Louis
```

```
Harry
```

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

```
First Name: James
```

```
Last Name: Potter
```

```
Followers: 54
```

```
Friends:
```

```
Lily
```

```
Ron
```

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

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

```
Hi I am Whey Ogania
```

```
Profile Name is: Whey Ogania with 7824 followers
```

```
Your friends are: Zayn Liam Niall Louis Harry
```

```
Hi I am James Potter
```

```
Profile Name is: James Potter with 54 followers
```

```
Your friends are: Lily Ron
```

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

```
=== Code Execution Successful ===
```