

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

CODE:

user.py

```
2 usages
class User:
    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

    1 usage (1 dynamic)
    def introduce_self(self):
        print(f"Hi! I am {self.first_name} {self.last_name}")

    1 usage (1 dynamic)
    def view_of_profile(self):
        print(f"Profile Name is: {self.first_name} {self.last_name} with {self.followers_count} followers")
        print("Your friends are: ", end=" ")
        for friend in self.friends_name:
            print(friend, end=" ")
        print()
```

[testUser.py](#)

```
from user import User

! usage
class Test_User:
    def __init__(self):
        self.users = []

    ! usage
    def add_user(self):
        first = input("First Name:")
        last = input("Last Name:")
        followers = int(input("Followers:"))
        print("Friends: ")
        friends = []
        for _ in range(3):
            friend = input()
            friends.append(friend)

        user = User(first, last, followers, friends)
        self.users.append(user)

    ! usage
    def show_all_records(self):
        print("\nHere are the Records....\n")
        for user in self.users:
            user.introduce_self()
            user.view_of_profile()
            print()
        print(f"There are currently {len(self.users)} Members in the Social Media page")

! usage
def main():
    test = Test_User()
    while True:
        choice = input("Insert a Record? (y/n):").lower()

        if choice == 'y':
            test.add_user()
        elif choice == 'n':
            break
        else:
            print("Invalid Choice!!")

    test.show_all_records()

if __name__ == "__main__":
    main()
```

OUTPUT:

1st Output

```
C:\Users\COMLAB\PycharmProjects\pythonProject1\venv\Scripts\python.exe C:\Users\COMLAB\PycharmProjects\pythonProject1\testUser.py
Insert a Record? (y/n):y
First Name:Andy
Last Name:CornHolder
Followers:69
Friends:
Anita Steel
Barry B. Benson
Joe Biden
Insert a Record? (y/n):n
Invalid Choice!!
Insert a Record? (y/n):y
First Name:Anita
Last Name:Steel
Followers:67
Friends:
Will Smith
Chris Pratt
Maria Carey
Insert a Record? (y/n):n

Here are the Records....

Hi! I am Andy CornHolder
Profile Name is: Andy CornHolder with 69 followers
Your friends are: Anita Steel Barry B. Benson Joe Biden

Hi! I am Anita Steel
Profile Name is: Anita Steel with 67 followers
Your friends are: Will Smith Chris Pratt Maria Carey

There are currently 2 Members in the Social Media page

Process finished with exit code 0
```

2nd Output

```
Insert a Record? (y/n):y
First Name:Yankee
Last Name:Doodle
Followers:1776
Friends:
Americay
Liberty
Freedom
Insert a Record? (y/n):y
First Name:Napoleon Bonaparte
Last Name:
Followers:1000000
Friends:
Fredrick William III
Alexander I
King George III
Insert a Record? (y/n):n

Here are the Records....

Hi! I am Yankee Doodle
Profile Name is: Yankee Doodle with 1776 followers
Your friends are: Americay Liberty Freedom

Hi! I am Napoleon Bonaparte
Profile Name is: Napoleon Bonaparte with 1000000 followers
Your friends are: Fredrick William III Alexander I King George III

There are currently 2 Members in the Social Media page

Process finished with exit code 0
|
```