

COMP
110

Class Writing Practice

Class Writing (Do together)

- Write a class called `Profile`
- It should have two attributes, `username: str` and `private: bool`
- Write a *constructor* that takes two parameters: `self` and `username_input: str`. It should set the `username` attribute equal to `username_input` and set the `private` attribute to `True`.
- Write a method called `tweet` that takes as parameters `self` and `msg: str`. If `self.private` is `False`, then it should print `msg`

Instantiating (Try on your own!)

- Create a new variable `user1` that is reference to a `Profile` object with the username `"110_rulez"`
- Update `user1`'s `private` attribute to be `False`
- Use the `tweet` method call to tweet the message `"OOP is cool!"`

In Memory

Let's diagram the code we just wrote!

In Memory

```
1  """Practice writing a class."""
2
3  # Definition
4  class Profile:
5
6      username: str
7      private: bool
8
9      def __init__(self, username_input: str):
10         """Create a new Profile object."""
11         self.username = username_input
12         self.private = True
13
14         def tweet(self, msg: str) -> None:
15             """If profile is public, print msg."""
16             if self.private is False: # not self.private
17                 print(msg)
18
19  # Instantiation
20  user1: Profile = Profile("110_rulez") # calls __init__()
21  user1.private = False
22  user1.tweet("OOP is cool!")
```