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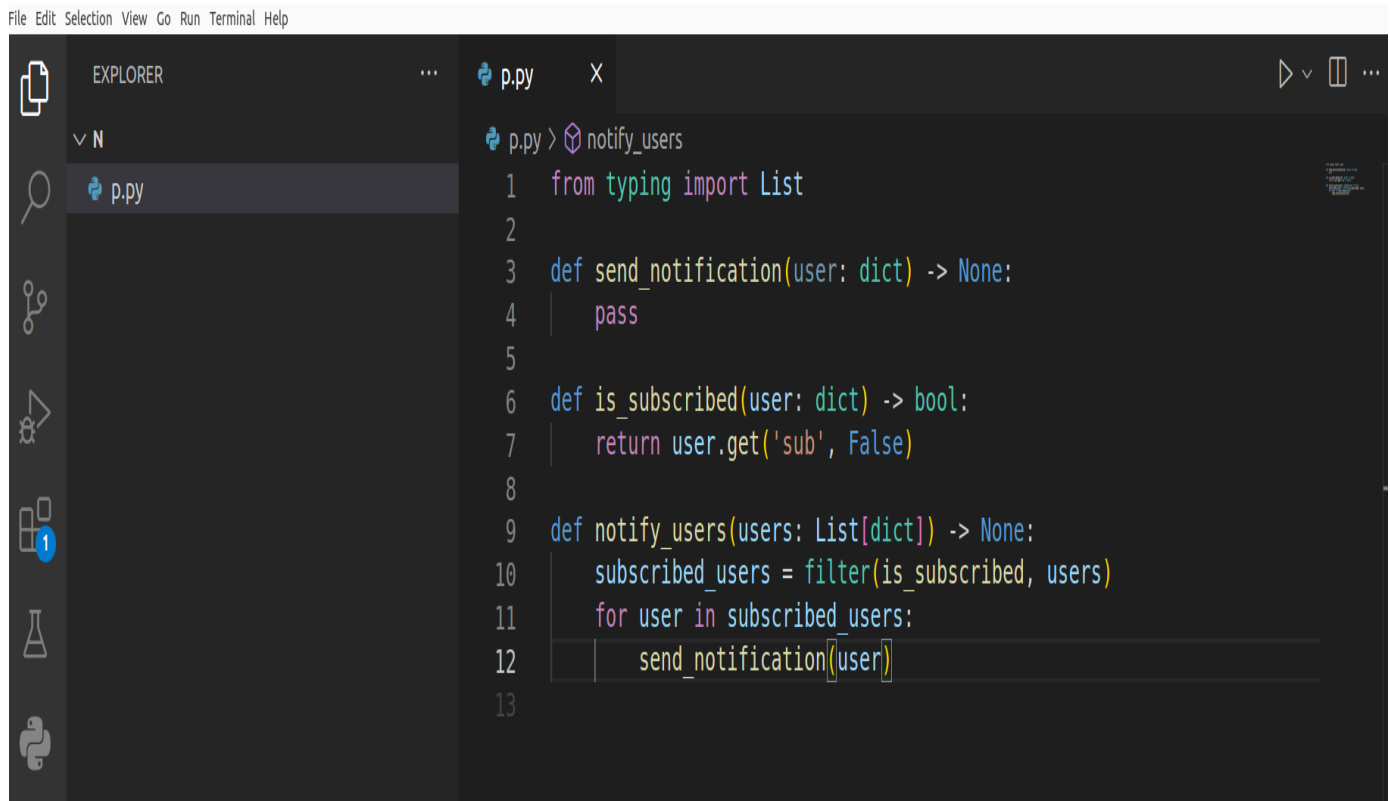
ASSIGNMENT_DAY-5

Refactor following code:

```
from typing import List
import pandas as pd
class User:
    sub: bool
def notify(user: User) -> None:
    pass
def notify_users(x: List[User]) -> None:
    #Filter users with subscription and notify them.
    for u in x:
        if u.sub:
            # u.notify()
            notify(u)
```

SOLUTION:

Here is the refactored code :



```
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EXPLORER
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    p.py

p.py
1  from typing import List
2
3  def send_notification(user: dict) -> None:
4      pass
5
6  def is_subscribed(user: dict) -> bool:
7      return user.get('sub', False)
8
9  def notify_users(users: List[dict]) -> None:
10     subscribed_users = filter(is_subscribed, users)
11     for user in subscribed_users:
12         send_notification(user)
13
```

1. Removed **import pandas as pd** as it was unnecessary.
2. Removed **user class** since it is no longer necessary
3. Removed the **notify()** function and created a new **send_notification()** function that takes a dictionary as a parameter and returns None. This function will be responsible for sending the notification to the user.
4. Created a new function called **is_subscribed()** that takes a dictionary as a parameter and returns a boolean value. This function will be used to filter the list of users to only include those who have subscribed.
5. Modify the **notify_users()** function to take a list of dictionaries as a parameter instead of a list of User objects.
6. Use the **filter()** function to filter the list of users based on whether or not they are subscribed. The **is_subscribed()** function is passed as the filter function to evaluate each user.

7. **Loop** through the filtered list of subscribed users and call the **send_notification()** function for each user.