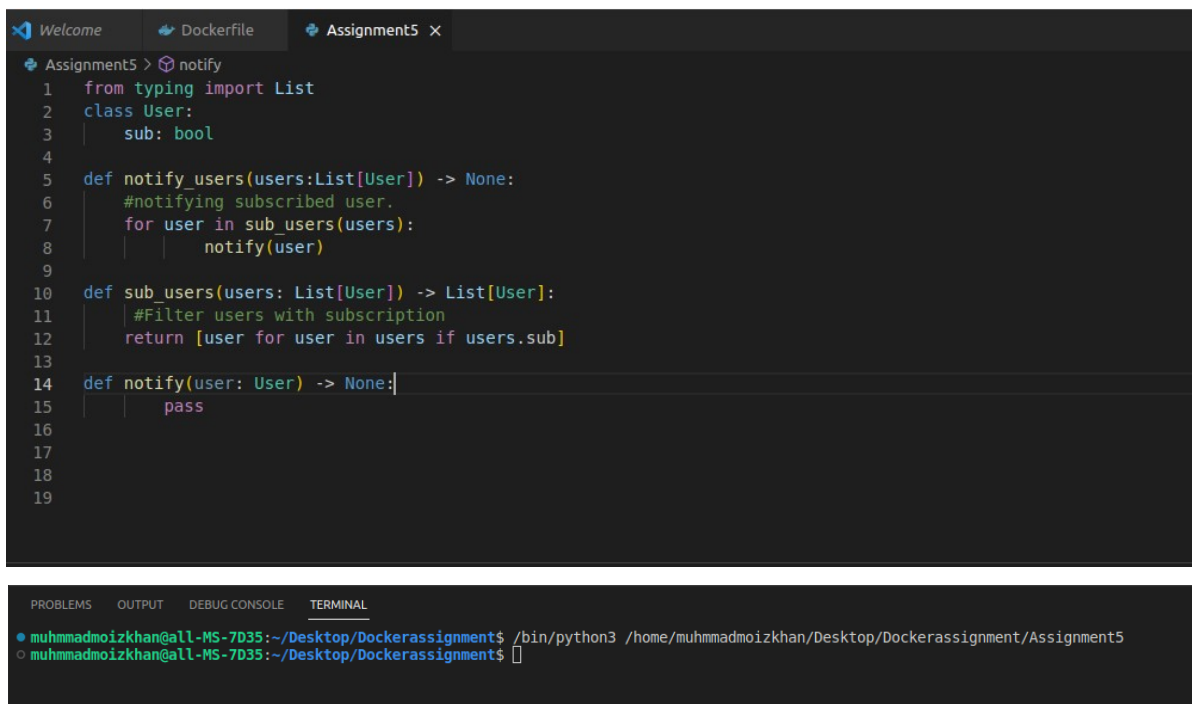


# UNIT 1.5 ASSIGNMENT

MUHAMMAD MOIZ KHAN (DEG-2303-022-KHI)

## 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)
```



The screenshot shows a code editor with a dark theme. The top bar has tabs for 'Welcome', 'Dockerfile', and 'Assignment5'. The editor window shows the refactored code with line numbers 1 through 19. The code is as follows:

```
1 from typing import List
2 class User:
3     sub: bool
4
5     def notify_users(users: List[User]) -> None:
6         #notifying subscribed user.
7         for user in sub_users(users):
8             notify(user)
9
10    def sub_users(users: List[User]) -> List[User]:
11        #Filter users with subscription
12        return [user for user in users if users.sub]
13
14    def notify(user: User) -> None:
15        pass
16
17
18
19
```

Below the editor is a terminal window with tabs for 'PROBLEMS', 'OUTPUT', 'DEBUG CONSOLE', and 'TERMINAL'. The terminal shows the command to run the code:

```
muhammadmoizkhan@all-MS-7D35:~/Desktop/Dockerassignment$ /bin/python3 /home/muhammadmoizkhan/Desktop/Dockerassignment/Assignment5
muhammadmoizkhan@all-MS-7D35:~/Desktop/Dockerassignment$
```

## EXPLANATION:

We remove import pandas as pd from the line 2 because there was no use of it and we remove comments of notifying users as we are clearly using it in code. At last, we divide the code into two parts first we subscribe users by defining function and returning the list and then we notify users by defining notify function and by iterating the list of users we notify the user one by one.

