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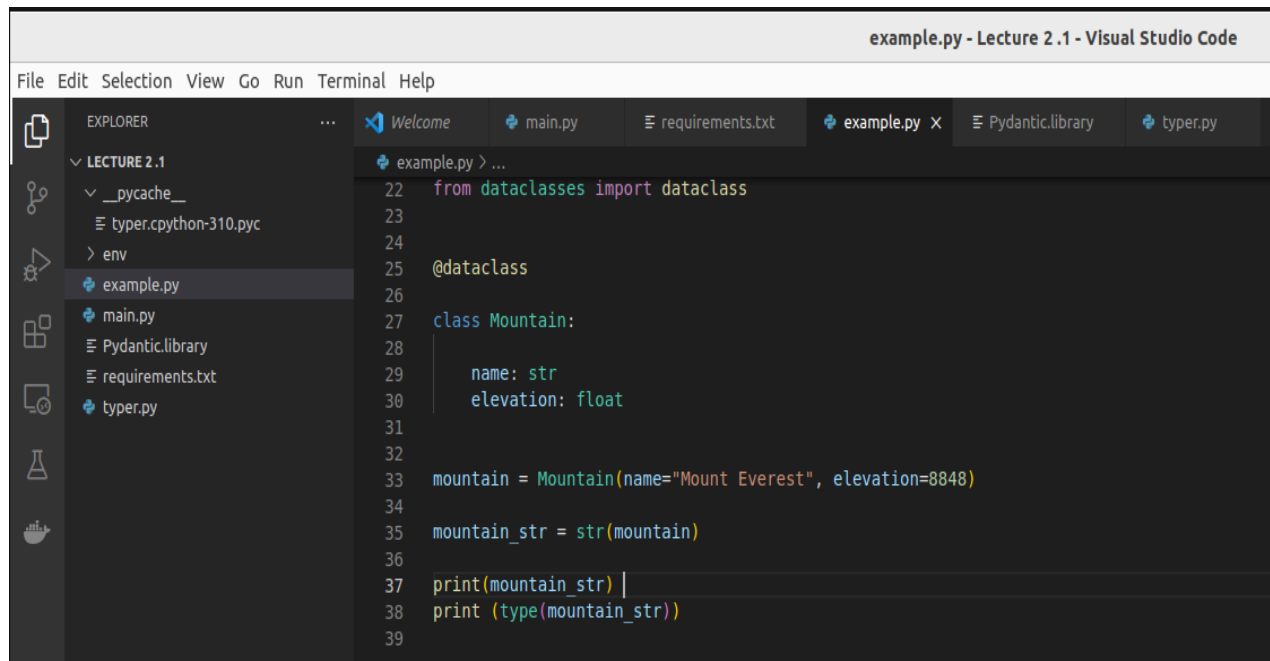
Data Engineer Bootcamp

Assignment No: 1.2(A)

Write a dataclass describing a mountain (containing fields for name and elevation) and:

- Construct an instance of the dataclass
- Convert it to string

Screenshot of the Task:

The screenshot shows the Visual Studio Code interface with a file explorer on the left and a code editor on the right. The file explorer shows a project structure with a folder 'LECTURE 2.1' containing files like 'example.py', 'main.py', 'Pydantic.library', 'requirements.txt', and 'typer.py'. The code editor shows the content of 'example.py' with the following code:

```
22 from dataclasses import dataclass
23
24
25 @dataclass
26
27 class Mountain:
28     name: str
29     elevation: float
30
31
32
33 mountain = Mountain(name="Mount Everest", elevation=8848)
34
35 mountain_str = str(mountain)
36
37 print(mountain_str) |
38 print (type(mountain_str))
39
```

Solution:

Import the dataclass and module dataclasses library. The code defines the mountain class and decorate @dataclass module in python using two attributes name: str and elevation: float respectively.

The instance of the mountain class creates the name mountain Everest and elevation.

And convert the variable mountain into a string mountain_str and finally print mountain_str and check the print type.

Code:

```
from dataclasses import dataclass
```

```
@dataclass
```

```
class Mountain:
```

```
    name: str
```

```
    elevation: float
```

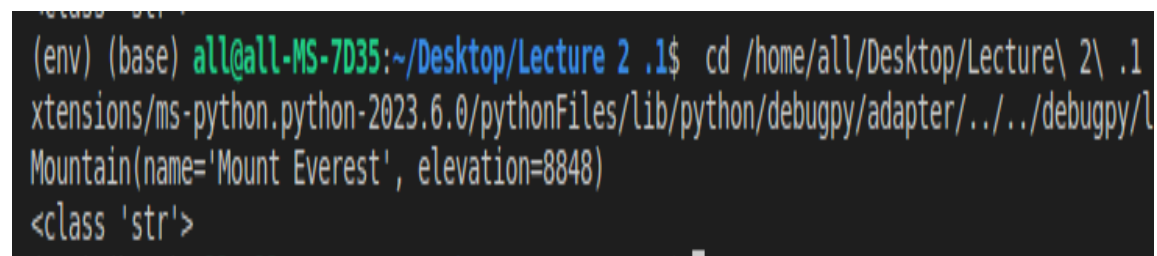
```
mountain = Mountain(name="Mount Everest", elevation=8848)
```

```
mountain_str = str(mountain)
```

```
print(mountain_str)
```

```
print (type(mountain_str))
```

Output:



```
(env) (base) all@all-MS-7035:~/Desktop/Lecture 2 .1$ cd /home/all/Desktop/Lecture\ 2\ .1
xtensions/ms-python.python-2023.6.0/pythonFiles/lib/python/debugpy/adapters/./../debugpy/l
Mountain(name='Mount Everest', elevation=8848)
<class 'str'>
```