

Unit 1.2: Graded Assignment 2

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Assignment:

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

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

Solution:

```
home > muhammadrqim > Documents > python > assignment_2.py > ...
1  from dataclasses import dataclass
2
3  @dataclass
4  class Mountain:
5      name: str
6      elevation: int
7
8
9  mountain = Mountain(name="Mount Everest", elevation=9000)
10
11  print(mountain,type(mountain))
12
13  mountain_str = str(mountain)
14
15  print(mountain_str,type(mountain_str))
```

In this program, we created a class named "Mountain". Dataclasses are useful libraries that is used where we need to define a class that only stores data and doesn't have any logic associated with it. Using Dataclasses, reduces the amount of code we need to write.

After that we created an instance "mountain" that have parameters name of mountain that is string and elevation of mountain that is integer passed into the object.

The output of the code is:

Output:

```
muhammadraqim@all-MS-7D35:~/Documents/Templates/venv1$ cd /home/muhammadraqim/
thon /home/muhammadraqim/.vscode/extensions/ms-python.python-2023.6.0/pythonF
ython/assignment_2.py
Mountain(name='Mount Everest', elevation=9000) <class '__main__.Mountain'>
Mountain(name='Mount Everest', elevation=9000) <class 'str'>
```