Unit 1.2 Graded Assignment: 1

Instructions:

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

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

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Solution:

In this assignment we have implemented dataclass library that is describing a mountain class. In the mountain class wee have multiple variable like name, above sea level and etc these variables are define as string and integers. An @dataclass annotation was used to implement the function which directly initialize the class without requiring a constructor.

1. First we have imported dataclass library, then we have built a class name mountain, with different variables.

```
example.py .../typer_library
                           example.py .../orm_example
                                                      mountain_dataclass.py ×
lecture-1.2 > 💠 mountain_dataclass.py > ...
      from dataclasses import dataclass
      @dataclass
      class mountain:
         name : str
          above sea level: int
          district:str
          province:str
          height:float
      mountain1 = mountain('Himalayas', 10000,'Central', 'KPK', 355.55)
      mountain2 = mountain('K-2', 50000, 'East', 'KPK', 145.63)
      print(mountain1.name)
      print(mountain2.above sea level)
      print(mountain1)
      print(mountain2)
```

2. In the second step we have pass values into the mountain class, and print them out:

```
mountain1 = mountain('Himalayas', 10000,'Central', 'KPK', 355.55)
mountain2 = mountain('K-2', 50000,'East', 'KPK', 145.63)
print(mountain1.name)
print(mountain2.above_sea_level)
print(mountain1)
print(mountain2)
```

3. The second task was to convert it into str which is also performed:

```
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