python advance assignment 11

May 31, 2023

Q1. What is the concept of a metaclass?

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    => Metaclass in Python is a class of a class that defines how a class behaves.
    A class is itself a instance of Metaclass, and any Instance of Class in Python

            is an Instance of type metaclass.

    E.g. Type of of int, str, float, list, tuple and many more is of metaclass type.
```

Q2. What is the best way to declare a class's metaclass?

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[]: =>A way to declare a class, metaclass is by using metaclass keyword in class_ odefinition.
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```
[1]: class meta(type):
    pass
    class class_meta(metaclass=meta):
        pass
    print(type(meta))
    print(type(class_meta))
```

```
<class 'type'>
<class '__main__.meta'>
```

Q3. How do class decorators overlap with metaclasses for handling classes?

Q4. How do class decorators overlap with metaclasses for handling instances?

```
[]: =>Anything you can do with a class decorator, you can of course do with au coustom metaclass
(just apply the functionality of the "decorator function", i.e., the one thatuetakes a class object and modifies it,
in the course of the metaclass's __new__ or __init__ that make the classuelobject!).
```