**Python Advanced Assignment 11**

Q1. What is the concept of a metaclass?

Ans-) A metaclass is a class that creates and defines other classes. It is the class of a class. In other words, a metaclass is a template for creating classes.

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

Ans-) The best way to declare a class's metaclass is to set the \_\_metaclass\_\_ attribute of the class. This attribute can be set to a class that will be used as the metaclass for the class. Alternatively, the metaclass argument can be passed to the class statement to specify the metaclass for the class.

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

Ans-) Class decorators and metaclasses can both be used to modify the behavior of classes. Class decorators are functions that take a class as an argument and return a modified class. They are used to add functionality to classes without modifying the class definition itself. Metaclasses are classes that are used to create and modify other classes. They are used to modify the behavior of all classes that are created using the metaclass.

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

Ans-) Class decorators and metaclasses both provide a way to modify the behavior of instances of a class. Class decorators can be used to add methods or attributes to instances of a class at runtime. Metaclasses can be used to modify the behavior of instances of a class by defining the \_\_new\_\_ method, which is called when a new instance is created. In general, metaclasses provide more control over the behavior of instances than class decorators.