• Method overloading: defining multiple methods with the same name but different parameters.

Ans: In Python, method overloading as seen in statically typed languages (like Java or C++) is not directly supported. However, you can achieve similar functionality using default arguments, variable-length arguments, or by checking the types of the arguments within a single method. Below are a few approaches to simulate method overloading in Python.

• Method overriding: redefining a parent class method in the child class.

Ans: Method overriding is a feature in object-oriented programming that allows a child class to provide a specific implementation of a method that is already defined in its parent class. This is useful for modifying or extending the behavior of inherited methods. When a method in a child class has the same name, return type, and parameters as a method in the parent class, the child class's method overrides the parent class's method.