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#
# classes
# ScaleConverter
# ScaleAndOffsetConverter
#
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class ScaleConverter:
    """Conversion of one unit to another."""

    def __init__(self, units_from, units_to, factor):

        self.units_from = units_from
        self.units_to = units_to
        self.factor = factor

    def description(self):
        """Description method"""
        return 'Convert ' + self.units_from + ' to ' + self.units_to

    def convert(self, value):
        """Conversion method"""
        return value*self.factor

    def __add__(self, v1):

        return self.factor + v1.factor


class ScaleAndOffsetConverter(ScaleConverter):

    def __init__(self, units_from, units_to, factor, offset):

        ScaleConverter.__init__(self, units_from, units_to, factor)
        self.offset = offset

    def convert(self, value):

        return value*self.factor + self.offset

```