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Aim - Write a python program to define a class, Point, that holds an (x, y) coordinate. The class is in file Shape.py, and now add the following operations the class where p, q, r are Point class and n is any number: i) p = q + r, ii) p + q, ii) p = q - r, iii) p - q, iv) p = q, v) p = q, vi) p = q / n, vii) p = q / n, vii) p = q / n, viii) p = q / n

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class Point:
In [16]:
              def __init__(self,p,q,r):
                  self.p = p
                  self.x = q
                   self.y = r
              def add(self):
                   self.p =self.x + self.y
                  print(self.p)
              def add1(self):
                  self.p =self.p + self.x
                  print(self.p)
              def subtract(self):
                  self.p =self.x - self.y
                   print(self.p)
              def subtract1(self):
                  self.p =self.p - self.x
                   print(self.p)
          p = Point(0,44,75)
          p.add()
          p.add1()
          p.subtract()
          p.subtract1()
         119
         163
         -31
         -75
In [17]:
          class Point:
              def __init__(self, p, q, n):
                  self.p = p
                   self.q = q
                   self.n = n
              def mul(self):
                   self.p =self.q * self.n
                  return self.p
          p = Point(0,13, 4)
          p.mul()
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Out[17]: 52
 In [9]:
          class Point:
              def __init__(self, p, n):
                  self.p = p
                  self.n = n
              def mul(self):
                  self.p =self.p * self.n
                  return self.p
          p = Point(13, 4)
          p.mul()
Out[9]: 52
In [10]:
          class Point:
              def __init__(self, p, q, n):
                  self.p = p
                  self.q = q
                  self.n = n
              def mul(self):
                  self.p =self.q / self.n
                  return self.p
          p = Point(0,13, 4)
          p.mul()
Out[10]: 3.25
In [11]:
          class Point:
              def __init__(self, p, n):
                  self.p = p
                  self.n = n
              def mul(self):
                  self.p =self.p / self.n
                  return self.p
          p = Point(13, 4)
          p.mul()
Out[11]: 3.25
 In [ ]:
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