

```
In [18]: product = lambda x, y: x * y
print(product(7, 5))
```

35

```
In [19]: import math
def circle_area(radius):
    return math.pi * radius**2
print(circle_area(10))
```

314.1592653589793

```
In [20]: def calculator(a, b, op):
    if op == 'a':
        return a + b
    elif op == 's':
        return a - b
    elif op == 'm':
        return a * b
    elif op == 'd':
        return a / b
    else:
        return "Invalid operation"
print(calculator(7, 8, 'd'))
```

0.875

```
In [21]: class Rectangle:
    def __init__(self, length, width):
        self.length = length
        self.width = width

    def area(self):
        return self.length * self.width

r = Rectangle(9, 4)
print(r.area())
```

36

```
In [22]: class Shape:
    def __init__(self, name, length):
        self.name = name
        self.length = length

    def area(self):
        return 0

class Square(Shape):
    def __init__(self, name, length):
        super().__init__(name, length)

    def area(self):
        return self.length * self.length

    def describe(self):
        return "This is a: " + self.name
```

```
s = Square('square', 5)
print("The area is:")
print(s.area())
print(s.describe())
```

The area is:
25
This is a: square