

Microquiz 2

1.

```
def sum_or_not(d):
    d_new = {}
    for k in d:
        if type(k) != int:
            d_new[k] = sum(d[k])
        else:
            d_new[k] = k
    return d_new

# test cases
d = {1:[1]}
d = {'a':[1]}
d = {1:[1,2]}
d = {'a':[1,3]}
d = {2:[3,4], 'b':[0,0,0], 1:[2,2,2], 'a':[2,3]}
d = {5:[5], 4:[4]}
d = {'z':[0,0], 'g':[2,2], 'c':[4,4]}
d = {2:[2], 'c':[0], 'b':[1,1,1,1], 6:[1,5]}
```

2.

```
class Circle():
    # Add to this method #
    def __init__(self, radius):
        self.radius = radius
        # your code here
        self.name = None

    # DO NOT MODIFY THIS METHOD #
    def area(self):
        return 3.14*self.radius**2

    # Write this method #
    def get_name(self):
        return self.name

    # Write this method #
    def set_name(self, name):
        self.name = name

# Write this function (note the function is outside the class) #
def build_two(r1, r2):
    c1 = Circle(r1)
    c2 = Circle(r2)
    return c1.area() + c2.area()

# test cases
a = Circle(2)
print(a.get_name())

a = Circle(40)
print(a.get_name())

a = Circle(2)
a.set_name("small")
print(a.name)

a = Circle(2)
a.set_name("big")
print(a.name)

print(build_two(4,5))

print(build_two(0,1))
```