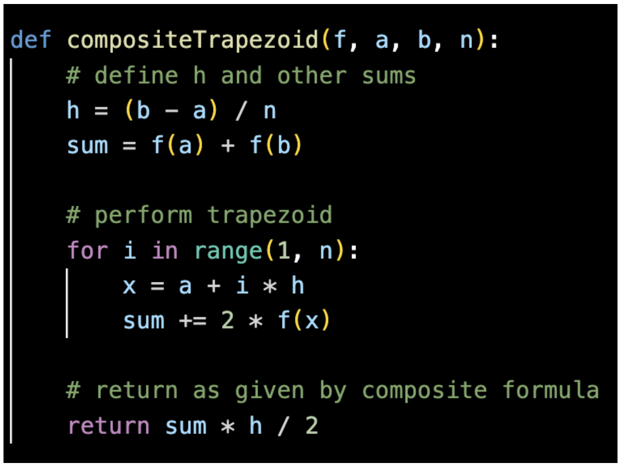
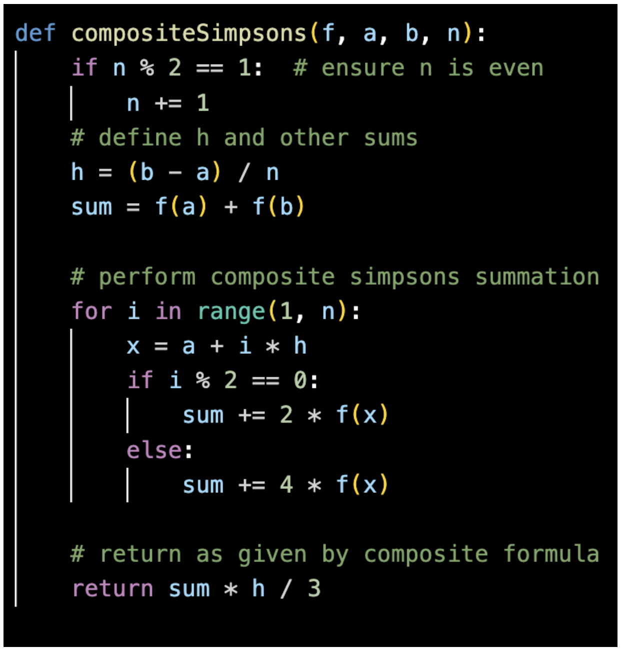
3)
Code:



```python
def compositeTrapezoid(f, a, b, n):
    # define h and other sums
    h = (b - a) / n
    sum = f(a) + f(b)

    # perform trapezoid
    for i in range(1, n):
        x = a + i * h
        sum += 2 * f(x)

    # return as given by composite formula
    return sum * h / 2
```

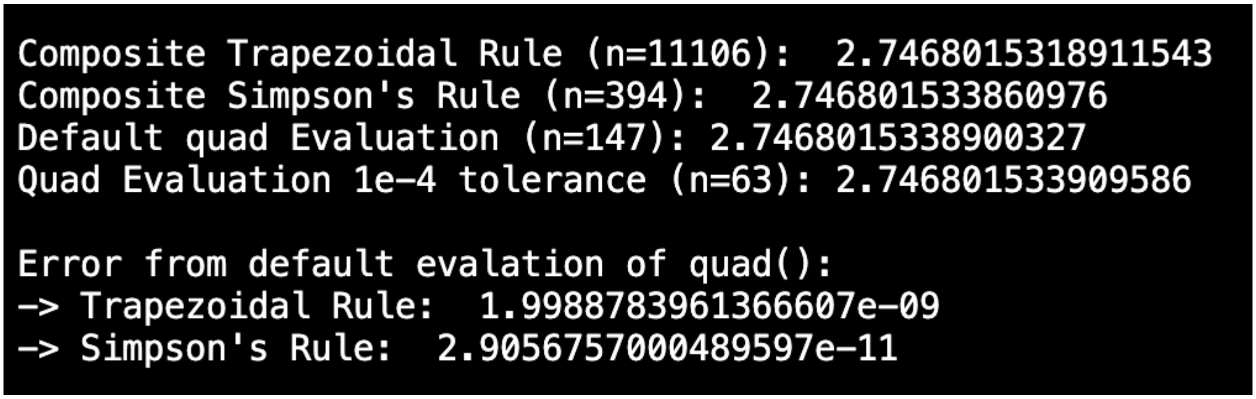


```python
def compositeSimpsons(f, a, b, n):
    if n % 2 == 1:  # ensure n is even
        n += 1
    # define h and other sums
    h = (b - a) / n
    sum = f(a) + f(b)

    # perform composite simpsons summation
    for i in range(1, n):
        x = a + i * h
        if i % 2 == 0:
            sum += 2 * f(x)
        else:
            sum += 4 * f(x)

    # return as given by composite formula
    return sum * h / 3
```

Output:



```
Composite Trapezoidal Rule (n=11106):  2.7468015318911543
Composite Simpson's Rule (n=394):  2.746801533860976
Default quad Evaluation (n=147): 2.7468015338900327
Quad Evaluation 1e-4 tolerance (n=63): 2.746801533909586

Error from default evalation of quad():
-> Trapezoidal Rule:  1.9988783961366607e-09
-> Simpson's Rule:  2.9056757000489597e-11
```