Problem Overview

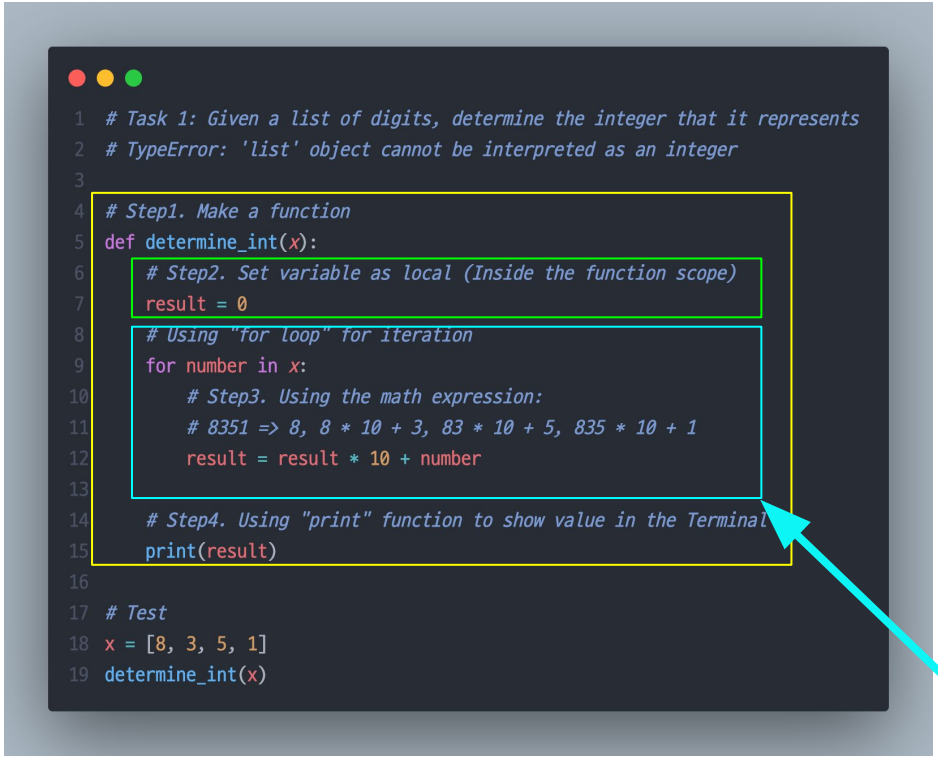
Example input: [8, 3, 5, 1]

Target output: 8351

Given a list of digits, construct the integer it represents

Conditions: No casting or string conversion allowed

CodeBase



```python
# Task 1: Given a list of digits, determine the integer that it represents
# TypeError: 'list' object cannot be interpreted as an integer

# Step1. Make a function
def determine_int(x):
    # Step2. Set variable as local (Inside the function scope)
    result = 0
    # Using "for loop" for iteration
    for number in x:
        # Step3. Using the math expression:
        # 8351 => 8, 8 * 10 + 3, 83 * 10 + 5, 835 * 10 + 1
        result = result * 10 + number

    # Step4. Using "print" function to show value in the Terminal
    print(result)

# Test
x = [8, 3, 5, 1]
determine_int(x)
```

The idea is:

Each digit's value depends on its position

0 * 10 + 8 = 8
8 * 10 + 3 = 83
83 * 10 + 5 = 835
835 * 10 + 1 = 8351

```
8
83
835
8351
```

Start with 0. For each digit, multiply the result by 10 and then add the digit

So, using the Python "for loop" (iterative) with "result" local variable (accumulate)