

Code Analysis

- Study the code snippet below
- What do you think the code is supposed to do?

Thought Questions

1. What information does the `check_student_enrollment()` function expect to receive from you?
2. Interpret line 12 below. What's the difference between how the logical operator `and` and the logical operator `or` works?
3. The `result` variable is an example of a Boolean variable. What are the only two possible values can you assign to a Boolean variable?

```
def check_student_enrollment(student, biology_1, biology_2, biology_3):  
    return student in biology_1 and (student in biology_2 or student in biology_3)  
  
biology_1 = ["Alice", "Bob", "Charlie"]  
biology_2 = ["Bob", "David", "Eve"]  
biology_3 = ["Alice", "Eve", "Frank"]  
  
specific_student = "David"  
result = check_student_enrollment(specific_student, biology_1, biology_2, biology_3)  
  
if result:  
    print(f"{specific_student} is enrolled in Biology 1 and at least one of the other  
    two classes (Biology 2 or Biology 3).")  
else:  
    print(f"{specific_student} is not enrolled in both Biology 1 and either Biology 2  
    or Biology 3.")
```