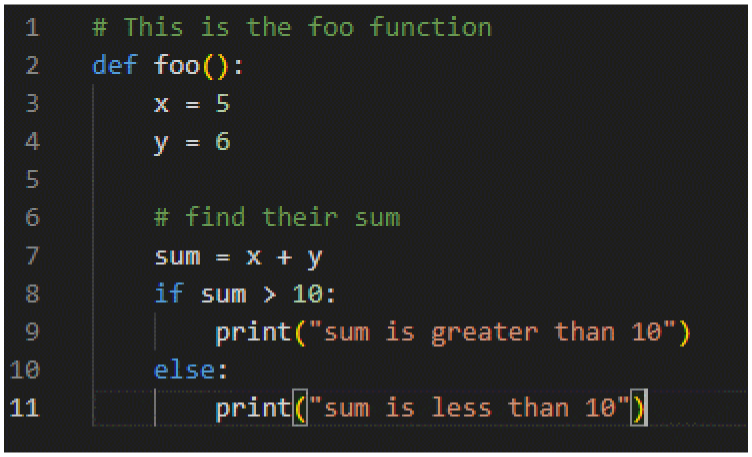
End-to-end test scenario 1:

Prerequisites: The test.py file as seen below:



```python
# This is the foo function
def foo():
    x = 5
    y = 6

    # find their sum
    sum = x + y
    if sum > 10:
        print("sum is greater than 10")
    else:
        print("sum is less than 10")
```

Execution: Run the driver class of the PPALMS and load in the test file. The terminal output should match the following expected value:

```
Instructor is uploading a file located at: code/test.py

File uploaded successfully.

001  # This is the foo function

002  def foo():

003      x = 5

004      y = 6

005

006      # find their sum

007      sum = x + y

008      if sum > 10:

009          print("sum is greater than 10")

010      else:

011          print("sum is less than 10")


Enter a command with a line number(s) to annotate your file.

Comment: c <line number>

Create tuple: t <start line> <end line>
```

Remove tuple: r <tuple number>

Generate questions: g (NOT IMPLEMENTED IN THIS VERSION)

Enter your command:

Step 1: Enter command: “c 1”	
Expected result: Match the terminal output	Enter your command: c 1 # 001 # This is the foo function 002 def foo(): 003 x = 5 004 y = 6 005 006 # find their sum 007 sum = x + y 008 if sum > 10: 009 print("sum is greater than 10") 010 else: 011 print("sum is less than 10")
Step 2: Enter command: “t 3 4”	
Expected result: Match the terminal output	# 001 # This is the foo function 002 def foo(): | 003 x = 5 | G00 y = 6 005 006 # find their sum 007 sum = x + y 008 if sum > 10: 009 print("sum is greater than 10") 010 else: 011 print("sum is less than 10")
Step 3: Enter command: “g”	
Expected result: Match the terminal output	This feature is not implemented in this version. When it is your annotations will be good enough for question generation.

Traceability:

This scenario should complete the annotation subsystem in the design document. Looking at the design documents traceability matrix we see that this functionality meets requirements #2 and #4 by having a complete scenario.