

### Exercise 1:

Study the program below and write the questions and answers in MS word and save it as exercise4.docx.

```
1 | x = 5
2 | y = 6
3 | z = 33
4 |
5 | def f(x):
6 |     y = 9
7 |     print(x + y + z)
8 |
9 | print(x + y + z)
10 | f(12)
11 | print(x + y + z)
12 | pass
```

1. What is the output of the program?

44

55

44

2. Which line contains a function header?

Line 5

3. Which line(s) constitute the main program?

Lines 5, 6 and 7

4. Is there a local variable defined anywhere? If so what is its scope?

y is the local variable and its scope is the body of function f.

5. Does the function f return a value?

No, it does not.

6. Does the function f reference any global variables?

Yes, it does.

The function f references global variables, x and z.

7. Which lines constitute a function body?

Line 6 and Line 7

8. Are there any arguments used in the program? If so what and where are they? (tricky)

Yes, 12 is an argument because its being assigned as a value to the parameter x in line 10.

9. Are there any parameters defined in the program? Explain.

Yes, x is defined as a parameter in function f because it's a variable to store the value of an argument.

10. What does the last line do?

Acts as a place holder for future code.