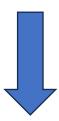General study tip:  Don't look at the answers until you try to do it yourself, first.

Ready to look at the answers?

Answers:

1. b
2. a
3. c
4. d
5. a
6. a - syntax error.  Study tip: think about how you can change the code a little bit, so it is no longer a syntax error, but a runtime error
7. d
8. c.  Study tip: think about how you can change the code, so that a, b, or d are the correct answers.
9. a  - a is the same as True, b is the same as True, so (a or b) is True, which turns into 1 since a is 1.  Study tip: how do you change the code so that b or c are the correct answers.
10. d
11. c
12. c – the 4$^{th}$ time the loop breaks without printing
13. a.  Study tip: think about how you change the code so that b or c are the correct answers.
14. e
15. d
16. d
17. e – 2C or 0x2C
18. a.  Study tip: think about how you change the code so that b or c are the correct answers.
19. b
20. b
21. c
22. b. Study tip: think about how you change the code so that a or c are the correct answers.
23. a
24. c
25. c
26. d
27. d
28. c
29. a
30. b
31. d
32. d
33. a
34. a
35. a

36. d
37. a
38. a. Bob is the same object as Adam, so when you change one's id, the id of the other changes too.
39. a
40. c.  You should always write Adam.get_id() not Adam.id.  Use the method not the variable.
41. c
42. e – 10 lines
43. d
44. d
45. d
46. e – recursion does not stop
47. e  - 16
48. d
49. a
50. d

```
def sum_list(lst):

    if not lst:

        return 0

    else:

        sublist = sum_list(lst[1:])

        return lst[0] + sublist
```

**Grading Rubric**

Each multiple-choice question is 1 point.

| Grade Point | Letter Grade | Points on Exam |
|---|---|---|
| 4 | A+/A | 44 and above |
| 3.7 | A- | 41 and above |
| 3.3 | B+ | 38 and above |
| 3 | B | 35 and above |
| 2.7 | B- | 32 and above |
| 2.3 | C+ | 29 and above |
| 2 | C | 26 and above |
| 1.7 | C- | 23 and above |
| 1.3 | D+ | 20 and above |
| 1 | D | 17 and above |
| 0 | F | 0 and above |