

Starting Out with Python, 4th Edition

Answers to Review Questions

Chapter 2

Multiple Choice

1. C
2. B
3. D
4. B
5. A
6. C
7. A
8. B
9. D
10. A
11. B
12. D
13. B
14. A
15. A
16. C
17. A
18. B
19. A
20. B
21. B
22. B

True or False

1. F
2. T
3. F
4. T
5. F

Short Answer

1. Monitor what the customer/user *actually* needs vs what they think they need.
2. Notation using programming logic for programming design
3. fetch, decode, execute
4. float
5. integer division ignores decimals

6. magic numbers are unlabeled or uncommented numbers that are found in the code. Nobody knows what they actually do or where they came from.
7. Re-usability. Also because of common syntax, everyone knows what 'PI' is. It also is immutable as a constant. So you always will know what is in that variable. There also is no chance that the programmers will accidentally mistype the number once and break the code.

Algorithm Workbench

1. height = input('Enter your height: ')
2. color = input('Enter your favorite color')
3.
 - a. b = a + 2
 - b. a = b * 4
 - c. b = a * 3.14
 - d. a = b - 8
4. w= 5, x=4, y=8,z=2
 - a. 12
 - b. 4
 - c. 2.0
 - d. 6
 - e. 2
5. total = 10 + 14
6. due = down_payment - total
7. total = subtotal * 0.15
8. 11
9. 5
10. print("{:,.2f}".format(sales))
11. print("{:,.1f}".format(number))
12. George@John@Paul@Ringo