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Review Questions
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 $q = calc_q3(5)$

1. The following code is executed def f(x): return x + 2, x * 2 x, y = f(5)print(x + y)What is the output produced by the print() statement? (a) 7 10 (b) 17 (c) x + y(d) This produces an error. (e) None of the above. 2. True or False: Names that are valid for variables are also valid for functions. 3. What output is produced by the print() statement when the following code is executed? def calc q1(x): q = 4 * x + 1return q Supposed to be $q = calc_q1(5)$ calc_q1(5) print(q) (a) 24 (b) 21 (c) q (d) This produces an error. (e) None of the above. 4. What is the value of q after the following code has been executed? def calc_q2(x): q = 4 * x + 1print(q) $q = calc_q2(5)$ (a) 24 (b) 21 (c) This produces an error. (d) None of the above. 5. What is the value of q after the following code has been executed? q = 20def calc_q3(x): q = 4 * x + 1return q

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(a) 24
(b) 21
(c) This produces an error.
(d) None of the above.
6. What is the output produced by the print() statement in the following code?
def calc_q4(x):
       q = 4 * x + 1
print(calc_q4(5))
(a) 24
(b) 21
(c) q
(d) This produces an error.
(e) None of the above.
7. What is the output of the print() statement in the following code?
abc = 5 + 6 // 12
print(abc)
(a) This produces an error.
(b) 5 + 6 // 12
(c) 5
(d) 5.5
(e) 6
8. What is the output of the print() statement in the following code?
def = 5 + 6 % 7
print(def)
(a) This produces an error.
(b) 5 + 6\%7
(c) 11
              You are not allowed to use def as a variable
(d) 4
9. The following code is executed:
def get_input():
       x = float(input("Enter a number: "))
       return x
def main():
                         because the x is undefined
       get_input()
       print(x ** 2)
main()
At the prompt the user enters 2. What is the output of this program?
(a) x ** 2
(b) 4
(c) 4.0
(d) This produces an error.
(e) None of the above.
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10. The following code is executed:
def get_input():
       x = float(input("Enter a number: "))
       return x
def main():
       print(get_input() ** 2)
main()
At the prompt the user enters 2. What is the output of this program?
(a) get_input() ** 2
(b) 4
(c) 4.0
(d) This produces an error.
(e) None of the above.
11. What is the value of z after the following code is executed?
def f1(x, y):
       print((x + 1) / (y - 1))
z = f1(3, 3) + 1
(a) 3
(b) 3.0
(c) 2
(d) This produces an error.
12. What is the value of z after the following code is executed?
def f2(x, y):
       return (x + 1) / (y - 1)
z = f2(3, 3) + 1
(a) 3
(b) 3.0
(c) 2
(d) This produces an error.
(e) None of the above.
13. What is the value of z after the following code is executed?
def f3(x, y = 2):
       return (x + 1) / (y - 1)
z = f3(3, 3) + 1
(a) 3
(b) 3.0
(c) 2
(d) This produces an error.
(e) None of the above.
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14. What is the value of z after the following code is executed?
def f3(x, y = 2):
       return (x + 1) / (y - 1)
z = f3(3) + 1
(a) 3
(b) 3.0
(c) 2
(d) This produces an error.
(e) None of the above.
15. The following code is executed.
def inc_by_two(x):
       x = x + 2
       return x
x = 10
inc_by_two(x)
print("x = ", x)
What is the output produced by the print() statement?
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X = 10