Reading Python Functions

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Write your answers to the questions here.

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

Reading Python Functions

NAME \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

For the following questions, circle the letter of the MOST correct answer.

1. The box below shows the output after a certain program has run. Select the program below that was executed to produce this result.

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| --- |
| 15 |

|  |  |  |  |
| --- | --- | --- | --- |
| (a)  def compare(a,b):  if a>=b:  return a  else:  return b  def main1():  x = compare(3,5)  y = compare(7,5)  print x + y  main1() | (b)  def compare(a,b):  if a<=b:  return a  else:  return b  def main1():  x = compare(3,5)  y = compare(7,5)  print x + y  main1() | (c)  def compare(a,b):  if a>=b:  return a  else:  return b  def main1():  x = compare(3,5)  y = compare(7,5)  print x \* y  main1() | (d)  def compare(a,b):  if a<=b:  return a  else:  return b  def main1():  x = compare(3,5)  y = compare(7,5)  print x \* y  main1() |

1. Select the box that shows the output after the program is executed.

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| --- |
| def main2():  a = 0  b = 0  while a < 5:  a = a + 1  b = b + a  print a, b  main2() |

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| --- | --- | --- | --- |
| (a)  5 5 | (b)  5 15 | (c)  6 120 | (d)  4 10 |

1. Select the box that shows the output after the program is executed.

|  |
| --- |
| def func3(x, y):  z = x + y  return z  def main3():  s = 1  for i in range(3):  s = func3(s, s)  print s  main3() |

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| --- | --- | --- | --- |
| (a)  2 | (b)  4 | (c)  8 | (d)  16 |

1. The box below shows the output after a certain program has run. Select the program below that was executed to produce this result.

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| -2 |

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| --- | --- | --- | --- |
| (a)  def subtract(a, b):  c = a - b  return c  def main4():  d = subtract(4, 5)  print d  main4() | (b)  def subtract(a, b):  c = a - b  return c  def main4():  d = subtract(5, 4)  print d  main4() | (c)  def subtract(a, b):  c = a - b  return c  def main4():  d = subtract(4, 6)  print d  main4() | (d)  def subtract(a, b):  c = a - b  return c  def main4():  d = subtract(6, 2)  print d  main4() |

1. Select the box that shows the output after the program is executed.

|  |
| --- |
| def func5(a, b):  c = a \* b  d = a + b  if c > d:  return True  else:  return False  def main5():  if func5(-4,4):  print "Yes"  if func5(-2,3):  print "Yes"  if func5(1,2):  print "Yes"  main5() |

|  |  |  |  |
| --- | --- | --- | --- |
| (a)  <nothing> | (b)  Yes | (c)  Yes  Yes | (d)  Yes  Yes  Yes |

1. Select the box that shows the output after the program is executed.

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| --- |
| def main6():  x = 0  s = 0  while x != 5:  s = s + x  x = x + 1  print s  main6() |

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| --- | --- | --- | --- |
| (a) 1 | (b) 3 | (c) 6 | (d) 10 |

1. Select the box that shows the output after the program is executed.

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| --- |
| def main7():  print 8\*3 + 3-8  main7() |

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| --- | --- | --- | --- |
| (a) 29 | (b) 19 | (c) 3 | (d) 0 |

1. Select the box that shows the output after the program is executed.

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| --- |
| def main8():  for i in range(3):  print "code"  main8() |

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| --- | --- | --- | --- |
| (a) <nothing> | (b) 1 code  2 code  3 code | (c) 1 code  2 code | (d) code  code  code |

1. Select the box that shows the output after the program is executed.

|  |
| --- |
| def main9():  x = 20  x = 40  if x < 30:  print "smaller"  else:  print "greater"  main9() |

|  |  |  |  |
| --- | --- | --- | --- |
| (a) SMALLER | (b) smaller | (c) smaller  greater | (d) greater |

1. Select the box that shows the output after the program is executed.

|  |
| --- |
| def main10():  x = 1  y = 2  print x + y \* 3 - 4  main10() |

|  |  |  |  |
| --- | --- | --- | --- |
| (a) -3 | (b) -1 | (c) 3 | (d) 5 |