Quiz 4 Writing more Python Functions Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

For the following questions, write your code in the space provided, or circle the letter of the MOST correct answer.

1. Write a function called printNtimes that takes two parameters, a string and a number. The function should print the string the number of times indicated by the number parameter.

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| Example call:  printNtimes("fred", 3)  Prints:  fred  fred  fred |

1. Write a function called count\_q that receives one string parameter. The function returns a number that is the count of the number of q characters in the string.

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| Example calls:  b = count\_q("helloworld")  c = count\_q("heqlqqlowoqrldqq")  print b, c  Prints:  0 6 |

1. Write a function called isHot. It receives a numeric parameter for the temperature. If the temperature is above 80 return True otherwise return False.

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| Example calls:  x = isHot(81)  y = isHot(80)  print x, y  Prints:  True False |

1. The function roll\_die has already been written for you below. It receives an integer parameter indicating how many sides are on the dice. It returns a random number between 1 and the number of sides on the die. Write 3 calls to the function. One for a 20 sided die, one for a 13 sided die, and one for a 6 sided die. Write code to print the values rolled.

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| Provided code:  import random  def roll\_die(sides):  r = random.randrange(1, sides+1)  return r |

1. Write a function called first\_plus\_last that receives a list of numbers as a parameter. It returns the sum of the first and last numbers in the list. The list will have at least 2 items.

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| Example calls:  a = first\_plus\_last( [3,4,4,4,4,6] )  print a  Prints:  9 |

1. Write a function called hello\_name that receives a string parameter that contains a name. Return a greeting of the form "Hello Bob!".

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| Example calls:  s = hello\_name("Alice")  print s  Prints:  Hello Alice! |

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

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| def function7(n):  if n % 7 == 0:  return True  else:  return False  a = function7(13)  b = function7(14)  c = function7(15)  print a,b,c |

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| (a) False True True | (b) True True False | (c) False False False | (d) False True False |

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

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| def function8(str):  mid = len(str)/2  return str[mid:]  a = function8("hello")  b = function8("helloworld")  print a,b |

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| (a) o d | (b) llo world | (c) hello helloworld | (d) hello world |

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

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| def function9(n):  nums = [ ]  for i in range(n):  if i >= 2:  x = nums[i-1] + nums[i-2]  else:  x = 1  nums.append(x)  return nums  z = function9(5)  print z |

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| (a) 5 | (b) [1, 2, 3, 4, 5] | (c) [1, 1, 2, 3, 5] | (d) [0, 1, 2, 3, 4] |

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

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| def function10(lst):  i = 0  while i < len(lst) and lst[i] != 12:  i = i + 1  return i  a = function10( [3, 12, 9, 12, 13] )  b = function10( [1, 2, 4, 8, 12, 24] )  print a,b |

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| (a) 1 4 | (b) 5 6 | (c) 2 5 | (d) 49 51 |