Week 7 : Quiz

|  |
| --- |
| Question 1 |
|  | What is wrong with this Python loop: |
|  | n = 5 |
|  | while n > 0 : |
|  | print n |
|  | print 'All done' |
|  | This loop will run forever |
|  | There should be no colon on the while statement |
|  | The print 'All done' statement should be indented four spaces |
|  | while is not a Python reserved word |
|  |  |
|  | Answer: This loop will run forever |
|  |  |
|  | Question 2 |
|  | What does the break statement do? |
|  | Jumps to the "top" of the loop and starts the next iteration |
|  | Resets the iteration variable to its initial value |
|  | Exits the currently executing loop |
|  | Exits the program |
|  |  |
|  | Answer: Exits the currently executing loop |
|  |  |
|  | Question 3 |
|  | What does the continue statement do? |
|  | Resets the iteration variable to its initial value |
|  | Exits the currently executing loop |
|  | Jumps to the "top" of the loop and starts the next iteration |
|  | Exits the program |
|  |  |
|  | Answer: Jumps to the "top" of the loop and starts the next iteration |
|  |  |
|  | Question 4 |
|  | What does the following Python program print out? |
|  | tot = 0 |
|  | for i in [5, 4, 3, 2, 1] : |
|  | tot = tot + 1 |
|  | print tot |
|  | 0 |
|  | 5 |
|  | 10 |
|  | 15 |
|  |  |
|  | Answer: 5 |
|  |  |
|  | Question 5 |
|  | What is the iteration variable in the following Python code: |
|  | friends = ['Joseph', 'Glenn', 'Sally'] |
|  | for friend in friends : |
|  | print 'Happy New Year:', friend |
|  | print 'Done!' |
|  | friend |
|  | friends |
|  | Sally |
|  | Joseph |
|  |  |
|  | Answer: friend |
|  |  |
|  |  |
|  | Question 6 |
|  | What is a good description of the following bit of Python code? |
|  | zork = 0 |
|  | for thing in [9, 41, 12, 3, 74, 15] : |
|  | zork = zork + thing |
|  | print 'After', zork |
|  | Sum all the elements of a list |
|  | Find the smallest item in a list |
|  | Count all of the elements in a list |
|  | Compute the average of the elements in a list |
|  |  |
|  | Answer: Sum all the elements of a list |
|  |  |
|  | Question 7 |
|  | What will the following code print out? |
|  | smallest\_so\_far = -1 |
|  | for the\_num in [9, 41, 12, 3, 74, 15] : |
|  | if the\_num < smallest\_so\_far : |
|  | smallest\_so\_far = the\_num |
|  | print smallest\_so\_far |
|  | Hint: This is a trick question and most would say this code has a bug - so read carefully |
|  | -1 |
|  | 3 |
|  | 74 |
|  | 42 |
|  |  |
|  | Answer: -1 |
|  |  |
|  | Question 8 |
|  | What is a good statement to describe the is operator as used in the following if statement: |
|  | if smallest is None : |
|  | smallest = value |
|  | The if statement is a syntax error |
|  | matches both type and value |
|  | Is true if the smallest variable has a value of -1 |
|  | Looks up 'None' in the smallest variable if it is a string |
|  |  |
|  | Answer: matches both type and value |
|  |  |
|  | Question 9 |
|  | Which reserved word indicates the start of an "indefinite" loop in Python? |
|  | while |
|  | def |
|  | break |
|  | for |
|  | indef |
|  |  |
|  | Answer: while |
|  |  |
|  | Question 10 |
|  | How many times will the body of the following loop be executed? |
|  | n = 0 |
|  | while n > 0 : |
|  | print 'Lather' |
|  | print 'Rinse' |
|  | print 'Dry off!' |
|  | 1 |
|  | 0 |
|  | 5 |
|  | This in an infinite loop |
|  | Answer: 0 |