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| Q: | 1. What are the two values of the Boolean data type? How do you write them?   True and False with T and F are capital letter |
| Q: | 1. What are the three Boolean operators?   and , or and not |
| Q: | 1. Write out the truth tables of each Boolean operator (that is, every possible combination of Boolean values for the operator and what they evaluate to).   And operator   |  |  | | --- | --- | | Expression | Evaluate to | | True and True | True | | True and False | False | | False and True | False | | False and False | False |   Or operator   |  |  | | --- | --- | | Expression | Evaluate to | | True or True | True | | True or False | True | | False or True | True | | False or False | False |   Not operator   |  |  | | --- | --- | | Expression | Evaluate to | | not True | False | | not False | True | |
| Q: | 4. What do the following expressions evaluate to?  (5 > 4) and (3 == 5) False  not (5 > 4) False  (5 > 4) or (3 == 5) True  not ((5 > 4) or (3 == 5)) False  (True and True) and (True == False) False  (not False) or (not True) True |
| Q: | 1. What are the six comparison operators?   Equal ==  Not equal !=  Greater than >  Less than <  Greater than or equal to >=  Less than or equal to <= |
| Q: | 1. What is the difference between the equal to operator and the assignment operator?   The equal to == compare two variable and produce the value True or False  The assignment operator = -> assign the value to variable |
| Q: | 7. Explain what a condition is and where you would use one. |
| Q: | 8. Identify the three blocks in this code:  spam = 0  if spam == 10:  print('eggs') 1  if spam > 5:  print('bacon') 2  else:  print('ham') 3  print('spam') 1  print('spam') |
| Q: | 9. Write code that prints Hello if 1 is stored in spam, prints Howdy if 2 is stored in spam, and prints Greetings! if anything else is stored in spam.  If spam == 1:  print(‘Hello’)  else if spam == 2:  print(‘Howdy’)  else :  print(‘Greetings!’) |
| Q: | 10. What can you press if your program is stuck in an infinite loop?  Ctr-C |
| Q: | 11. What is the difference between break and continue?  continue jump back to the start of the loop  break stop the loop or jump out of the loop |
| Q: | 12. What is the difference between range(10), range(0, 10), and range(0, 10, 1)in a for loop?  Range(10) run from 0 to 9  Range (0,10) run from start to end -> from 0 to 9 as well  Range(0,10,1) run from start to end -> from 0 to 9 with the increasement 1 |
| Q: | 13. Write a short program that prints the numbers 1 to 10 using a for loop. Then write an equivalent program that prints the numbers 1 to 10 using a whileloop.  For i in range (1 ,11):  Print(i)  i = 1  while i <= 10:  print(i)  i = i +1 |
| Q: | 14. If you had a function named bacon() inside a module named spam, how would you call it after importing spam?  spam.bacon() |