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| --- |
|  |
|  | #1.What are the two values of the Boolean data type? How do you write them? |
|  | The two values are True and False |
|  | a = True |
|  | b = False |
|  |  |
|  | """ |
|  | #2. What are the three different types of Boolean operators? |
|  | """ |
|  | The three different types of boolean operators: |
|  | AND, OR and NOT |
|  | """ |
|  | #3. Make a list of each Boolean operators truth tables (i.e. every possible combination of Boolean values for the operator and what it evaluate ). |
|  | """ |
|  |  |
|  | AND: |
|  | A B Out |
|  | 0 0 0 |
|  | 0 1 0 |
|  | 1 0 0 |
|  | 1 1 1 |
|  |  |
|  |  |
|  | OR: |
|  | A B Out |
|  | 0 0 0 |
|  | 0 1 1 |
|  | 1 0 1 |
|  | 1 1 1 |
|  |  |
|  |  |
|  | NOT: |
|  | A Out |
|  | 0 1 |
|  | 1 0 |
|  |  |
|  | """ |
|  |  |
|  | #4. What are the values of the following expressions? |
|  | """ |
|  | (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 |
|  | """ |
|  | #5. What are the six comparison operators? |
|  |  |
|  | """ |
|  | 1. == |
|  | 2. != |
|  | 3. > |
|  | 4. < |
|  | 5. >= |
|  | 6. <= |
|  |  |
|  | """ |
|  |  |
|  | # 6. How do you tell the difference between the equal to and assignment operators?Describe a |
|  | # condition and when you would use one. |
|  | """ |
|  | Assignment operator: |
|  | This operator assigns a value to the variable |
|  | Ex: a=1 |
|  |  |
|  | Equal to: |
|  | This operator compares 2 values. |
|  | a =8 |
|  | b =9 |
|  | if (a == b): |
|  | return True |
|  | """ |
|  |  |
|  | #7. Identify the three blocks in this code: |
|  | """ |
|  | spam = 0 |
|  | if spam == 10: |
|  | print('eggs') |
|  | if spam > 5: |
|  | print('bacon') |
|  | else: |
|  | print('ham') |
|  | print('spam') |
|  | print('spam') |
|  |  |
|  | """ |
|  |  |
|  | #8.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. |
|  |  |
|  | """ |
|  | spam = int(input("Enter the value:")) |
|  | if spam == 1: |
|  | print("Hello") |
|  | if spam == 2: |
|  | print("Howdy") |
|  | else: |
|  | print("Greetings!!") |
|  | """ |
|  |  |
|  | #9.If your programme is stuck in an endless loop, what keys you’ll press? |
|  |  |
|  | """Ctrl + C""" |
|  |  |
|  | #10. How can you tell the difference between break and continue? |
|  |  |
|  | """break : This keyword is used when you want to stop the loop at a particular condition""" |
|  | """ |
|  | a = input("Enter a:") |
|  | b = 22 |
|  | while a > b: |
|  | if a == 10: |
|  | Break |
|  | """ |
|  |  |
|  |  |
|  | #11.In a for loop, what is the difference between range(10), range(0, 10), and range(0, 10 |
|  | """ |
|  | There is no difference in the output of any three of them |
|  | range(10) : The loop prints 0 to 9( takes initial value as o by default) |
|  | range(0,10) : The loop prints from 0 to 9 |
|  | range(0,10,1) : The loop prints 0 to 9 with the interval/jump of 1 which provides the same output |
|  | """ |
|  |  |
|  | #12.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 while loop. |
|  |  |
|  | """ |
|  | For loop: |
|  |  |
|  | for i in range(11): |
|  | print(i) |
|  |  |
|  | i = 0 |
|  | while i <= 10: |
|  | print(i) |
|  | i = i+1 |
|  |  |
|  | """ |
|  |  |
|  | #13.If you had a function named bacon() inside a module named spam, how would you call it after importing spam? |
|  | """ |
|  | import spam |
|  | spam.bacon() |
|  | """ |