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In [1]:
         ##1. What are the two values of the Boolean data type? How do you write them?
         This can take only the value true or false.
         1 = true
         0 = false
In [ ]:
         ##2. What are the three different types of Boolean operators?
         and, or & not are the boolean operators.
In [3]:
         ##3. Make a list of each Boolean operator's truth tables (i.e. every possible combin
         and operator:
            Α
                    В
                                 Q
             0
                     0
             0
                     1
                                 0
                     0
                                 0
             1
             1
                      1
                                 1
         or operator:
                                 Q
             Α
                    В
             0
                      0
             0
                     1
                                 1
                     0
             1
                                 1
             1
                      1
                                  1
         not operator:
             Α
                      Q
             1
                      0
             0
                      1
          File "<ipython-input-3-b802b3da301b>", line 2
            and operator:
        SyntaxError: invalid syntax
In [4]:
         4. What are the values of the following expressions?
         (5 > 4) and (3 == 5)
         not (5 > 4)
         (5 > 4) or (3 == 5)
         not ((5 > 4) or (3 == 5))
         (True and True) and (True == False)
         (not False) or (not True)
          File "<ipython-input-4-dbdaf705ad54>", line 2
            (5 > 4) and (3 == 5)
        SyntaxError: invalid syntax
In [5]:
         (5 > 4) and (3 == 5)
Out[5]: False
In [6]:
         not (5 > 4)
Out[6]: False
        (5 > 4) or (3 == 5)
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Out[7]: True
 In [8]:
          not ((5 > 4) or (3 == 5))
 Out[8]: False
 In [9]:
          (True and True) and (True == False)
 Out[9]: False
In [10]:
          (not False) or (not True)
Out[10]: True
In [11]:
          ##5. What are the six comparison operators?
          Less than(<)
          Greater than(>)
          Less than or equal to(<=)
          Greater than or equal to(>=)
          Equal to(==)
          Not equal to (!=).
           File "<ipython-input-11-4b79773327bf>", line 2
             Less than(<)</pre>
         SyntaxError: invalid syntax
In [12]:
          ##6. How do you tell the difference between the equal to and assignment operators?De
          The "=" is an assignment operator is used to assign the value on the right to the va
          EX:a = 10;
          The '==' operator checks whether the two given operands are equal or not. If so, it
          EX:a == a, a == b;
           File "<ipython-input-12-3a15b8f15e50>", line 2
             The "=" is an assignment operator is used to assign the value on the right to th
          e variable on the left.
          SyntaxError: invalid character in identifier
In [13]:
          ##7. Identify the three blocks in this code:
In [14]:
          spam = 0
          if spam == 10:
          print('eggs')
          if spam > 5:
          print('bacon')
          else:
          print('ham')
          print('spam')
          print('spam')
           File "<ipython-input-14-3f64fe7ce118>", line 3
             print('eggs')
          IndentationError: expected an indented block
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In [15]:
          the three blocks are everything
          print('eggs')
          if spam > 5:
              print('bacon')
          else:
              print('ham')
          print('spam')
           File "<ipython-input-15-71f66270df5c>", line 1
             the three blocks are everything
         SyntaxError: invalid syntax
In [16]:
          ##8. Write code that prints Hello if 1 is stored in spam, prints Howdy if 2 is store
          spam = input()
          if spam == 1:
              print('Hello')
          elif spam == 2:
              print('Howdy')
              print('Greetings!')
         Greetings!
In [18]:
          ##9.If your programme is stuck in an endless loop, what keys you'll press?
In [19]:
          Ctrl + c
         NameError
                                                    Traceback (most recent call last)
         <ipython-input-19-0eddc49d0a19> in <module>
         ----> 1 Ctrl + c
         NameError: name 'Ctrl' is not defined
In [20]:
          ##10. How can you tell the difference between break and continue?
          Break statement: when break keyword is encountered, it will exit the loop.
          Continue statement: The continue statement skips the code that comes after it, and t
           File "<ipython-input-20-da1262383aba>", line 2
             Break statement: when break keyword is encountered, it will exit the loop.
         SyntaxError: invalid syntax
 In [ ]:
          ##11. In a for loop, what is the difference between range (10), range (0, 10), and ran
In [21]:
          for i in range(10):
              print(i)
         0
         1
         2
         3
         4
         5
         6
         7
```

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In [25]:
          for i in range(0,10):
               print(i)
          0
          1
          2
          3
          4
          5
          6
          7
          8
          9
In [26]:
          for i in range(0, 10, 1):
               print(i)
          1
          2
          3
          4
          5
          6
          7
          8
          9
 In [ ]:
          ##12. Write a short program that prints the numbers 1 to 10 using a for loop. Then w
In [32]:
          for i in range(1, 11):
               print(i)
          1
          2
          3
          4
          5
          6
          7
          8
          9
          10
In [33]:
           i = 1
           while(i<=10):</pre>
               print(i)
               i += 1
          2
          3
          4
          5
          6
          7
          8
          9
          10
```

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In		- 1	0
-11		- 1	۰