```
In [1]:
          ##1. what exactly is []?
          The empty list value, which is a list value that contains no items. This is similar
           File "<ipython-input-1-3b186d643f6d>", line 3
             The empty list value, which is a list value that contains no items. This is simi
         lar to how '' is the empty string value.
         SyntaxError: invalid syntax
 In [2]:
          ## 2.in a list of variables stored in a variable called spasm, how would assign the
          ## assume[2,4,6,8,10] are in spasm.
          spam[2] = 'hello' ##(Notice that the third value in a list is at index 2 because the
                                                    Traceback (most recent call last)
         <ipython-input-2-ccb61fe534d8> in <module>
               2 ## assume[2,4,6,8,10] are in spasm.
         ---> 4 spam[2] = 'hello' ##(Notice that the third value in a list is at index 2 bec
         ause the first index is 0.)
         NameError: name 'spam' is not defined
 In [3]:
          ## let's pretend the spam includes the list['a','b','c','d'] for the next three quer
          ## 3. what is the value of spam[int(int('3'*2)/11)]?
          'd' ##(Note that '3' * 2 is the string '33', which is passed to int() before being d
               This eventually evaluates to 3. Expressions can be used wherever values are use
           File "<ipython-input-3-c64f9edfb618>", line 4
              'd' (Note that '3' * 2 is the string '33', which is passed to int() before being
         divided by 11.
         SyntaxError: invalid syntax
In [4]:
          ## 4. what is the value of spam[-1]?
          'd' ##(Negative indexes count from the end.)
Out[4]:
In [6]:
          ## 5. what is the value of spam[:2]?
          ['a', 'b']
Out[6]: ['a', 'b']
In [7]:
          ##let's pretend bacon has the list [3.14, "cat",11, "cat",True]
          ## 6.what is the value of [3.14, 'cat', '11', 'cat', True]
         Object `generations` not found.
In [26]:
          bacon=[3.14, 'cat', 11, 'cat', True]
          a= bacon.index('cat')
          print(a)
```

```
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         1
In [13]:
          ## 7.how does bacon.append(99) change the look of the list value in bacon?
In [30]:
          bacon=[3.14, 'cat', 11, 'cat', True]
          bacon.append('99')
          bacon
         [3.14, 'cat', 11, 'cat', True, '99']
In [15]:
          ## 8.how does bacon.append(99) change the Look of the list value in bacon?
In [31]:
          bacon=[3.14, 'cat', 11, 'cat', True]
          bacon.remove('cat')
          bacon
Out[31]: [3.14, 11, 'cat', True]
In [17]:
          ## 9. what are list concatenation and list replication operators?
          The operator for list concatenation is +, while the operator for replication is *.
           File "<ipython-input-17-71ae5b093f4f>", line 2
             The operator for list concatenation is +, while the operator for replication is
         SyntaxError: invalid syntax
In [18]:
          ## 10.what is the difference between list method append() and insert()?
          While append() will add values only to the end of a list, insert() can add them anyw
           File "<ipython-input-18-b7febd852c22>", line 3
             While append() will add values only to the end of a list, insert() can add them
          anywhere in the list.
         SyntaxError: invalid syntax
In [19]:
          ## 11.what are two methods for removing items from a list?
          The del statement and the remove() list method are two ways to remove values from a
           File "<ipython-input-19-583cf581f568>", line 3
             The del statement and the remove() list method are two ways to remove values fro
         m a list.
         SyntaxError: invalid syntax
In [20]:
          ## 12.Describe how string values and list values are identical?
          Both lists and strings can be passed to len(), have indexes and slices, be used in f
          and be used with the in and not in operators.
```

file:///C:/Users/admin/Downloads/saileela narra - python assignment 4 - weekend 3.html

File "<ipython-input-20-e73e798a2931>", line 3

in for loops, be concatenated or replicated,

Both lists and strings can be passed to len(), have indexes and slices, be used

```
SyntaxError: invalid syntax
In [21]:
          ## 13. difference between tuple and list?
          Lists are mutable; they can have values added, removed, or changed. Tuples are immut
          Also, tuples are written using parentheses, ( and ), while lists use the square brad
           File "<ipython-input-21-ff4956737e49>", line 3
             Lists are mutable; they can have values added, removed, or changed. Tuples are i
         mmutable; they cannot be changed at all.
         SyntaxError: invalid syntax
In [22]:
          ## 14. how do you type a value that contains only a integer 42?
          (42,)
Out[22]: (42,)
In [23]:
          ## 15. how do you get a list value's tuple form? how do you get a tuple value's list
          The tuple() and list() functions, respectively
           File "<ipython-input-23-01f744b0191f>", line 3
             The tuple() and list() functions, respectively
         SyntaxError: invalid syntax
In [24]:
          ## 16. variables that "contain" list values are not necessarily lists themselves . I
          They contain references to list values.
           File "<ipython-input-24-4315e9b14853>", line 3
             They contain references to list values.
         SyntaxError: invalid syntax
In [ ]:
          ## 17. How do you distinguish between copy.copy() and copy.deepcopy()?
          The copy.copy() function will do a shallow copy of a list, while the copy.deepcopy()
          That is, only copy.deepcopy() will duplicate any lists inside the list.
```