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In [1]:
          ## 1.In the below elements which of them are values or an expression?
          ## eq:values can be integer or string and expressions will be mathematical operators
In [3]:
                 - "expression"
          'hello'-"values"
          -87.8 - "values"
                 - "expression"
                 - "expression"
                 - "expression"
          +
                 - "values"
          6
           File "<ipython-input-3-ebbbaa74533b>", line 5
             (-, "expression")
         SyntaxError: invalid syntax
In [4]:
          ## 2.Difference between string and variable
In [5]:
          string: A string is a sequence of charachters which is represented in single quotes
          variable: variable is a reserved memory location to store values
           File "<ipython-input-5-e91c1e903865>", line 1
             string: A string is a sequence of charachters which is represented in single quo
         tes or double quotes.
         SyntaxError: invalid syntax
In [6]:
          ## 3.Describe three different data types
          int data type: They are often called as integer data type which represents the posit
                         decimal point eg: 1,-56,+56
          float data type: Float is used to represent real numbers and is written with a decim
                          Eg: 8.75,2,50
          bool data type : we can use this datatype to represnt boolean values . The only allo
                           are "true or false". Internally python represents True as 1 and Fal
           File "<ipython-input-6-bf092397989b>", line 2
             int data type: They are often called as integer data type which represents the p
         ositive or negative whole numbers with no
         SyntaxError: invalid syntax
In [7]:
          ## 4. what is an expression made of ? what do all expressions do ?
          An expression is a combination of values, variables, operators, and calls to function
          An expression is an instruction that combines values and operators and always evalua
           File "<ipython-input-7-524a2c0f4821>", line 2
             An expression is a combination of values, variables, operators, and calls to fun
         ctions.
         SyntaxError: invalid syntax
In [12]:
          ## 5. This assignment statements ,like spam =10. what is the difference between an e
          An expression evaluates to a value. Expression is a combination of variables, operat
          Statements represent an action or command e.g print statements, assignment statement
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File "<ipython-input-12-ec66c2dd5682>", line 2
             An expression evaluates to a value. Expression is a combination of variables, op
         erations and values that yields a result value
         SyntaxError: invalid syntax
In [9]:
          ## 6.after running the following code ,what does the variable bacon contain?
In [10]:
          bacon=22
          bacon + 1
Out[10]: 23
In [11]:
          ## 7. what should be the values of the following two terms will be?
In [13]:
          'spam'+'spamspam'
          'spam'*3
Out[13]:
         'spamspamspam'
In [14]:
          ## 8. why is eggs a valid variable name while 100 is invalid?
          Because variable names cannot begin with a number.
           File "<ipython-input-14-5e79fc775644>", line 2
             Because variable names cannot begin with a number.
         SyntaxError: invalid syntax
In [15]:
          ## 9.what are three functions can be used to get the integer , floating -point numbe
          str()
          int()
          float()
Out[15]: 0.0
In [16]:
          ## 10.Why does this expression cause an error? How can you fix it?
          ##'I have eaten ' + 99 + ' burritos.'
          This expression causes and error because in this line 'I have eaten' and 'burritos'
          while 99 is treated as integer. In order to fix the error and print 'I have eaten 99
          , 99 needs '' around it to treat it as a string.
           File "<ipython-input-16-8f808d061eb6>", line 4
             This expression causes and error because in this line 'I have eaten' and 'burrit
         os' are strings,
         SyntaxError: invalid syntax
In [17]:
          var="I have eaten" + "99" + "burritos"
          print(var)
         I have eaten99burritos
In [ ]:
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