**Python Assignment Questions:**

1. Write a Python program that has a member function Sum inside class. This function will have array\_numbers and target\_sum as input to them. This function should find index of the consecutive two numbers from input array\_numbers , addition of which should match the input target\_sum. This function will return index of that two consecutive numbers.

For e.g.

Input: array\_numbers= [10,20,10,40,50,60,70], target\_sum=50  
Output: 3, 4

1. If you have a list b = [1, 4, 9, 16, 25, 36, 49, 64, 81, 100]. Using only a single line of Python code that takes this list b as input and generates a new list that should have only even elements of this list b in it.
2. Write a Python program to print all unique values in the following sample Data.    
   Sample Data : [{"A":"B001"}, {"A": "B002"}, {"AI": "B001"}, {"AI": "B005"}, {"AII":"B005"}, {"A":"B009"},{"AIII":"B007"}]  
   Expected Output : {'B005', 'B002', 'B007', 'B001', 'B009'}
3. Write a Python program to calculate a cat's age in cat's years.    
   Note: For the first two years, a cat year is equal to 11.5 human years. After that, each cat year equals 3 human years.  
   Expected Output:

Input a cat's age in human years: 15

The cat's age in cat's years is 62

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| 1. Write a program which accepts input from console which is numbers separated by comma as shown below and generate a list & a tuple of all that numbers. |
| **Input:** |

34,67,55,33,12,98

**Output:**

['34', '67', '55', '33', '12', '98']

('34', '67', '55', '33', '12', '98')