In [ ]:

```
#ASSIGNMENT 2
#Abhay Charan Patro
#BTECH/10021/18
#CSE B
```

In [ ]:

```python
"""
Assignment 2
Q1)Write a Python program to sum all the items in a list.
"""
lis=[]
n=input("Enter the number of elements in list ")
n=int(n)
print("Enter the list elements ")
for i in range(n):
  x=input()
  x=int(x)
  lis.append(x)
sum=0
for x in lis:
  sum=sum+x
print("The sum is ",sum)
```

```
Enter the number of elements in list 5
Enter the list elements
1
2
3
4
5
The sum is  15
```

In [ ]:

```python
"""
Assignment 2
Q2)Write a Python program to get the largest number from a list.
"""
lis=[]
n=input("Enter the number of elements in list ")
n=int(n)
print("Enter the list elements ")
for i in range(n):
  x=input()
  x=int(x)
  lis.append(x)
print("The max element in  list is ", max(lis))
```

```
Enter the number of elements in list 5
Enter the list elements
1
3
6
2
4
The max element in  list is  6
```

In [ ]:

```python
"""
Assignment 2
Q3) Write a Python program to count the number of strings where the string length is 2 or
more and the first and last character are same from a given list of strings.
Sample List : ['abc', 'xyz', 'aba', '1221']
Expected Result : 2
```

```
"""
words=[]
n=input("Enter the number of words ")
n=int(n)
print("Enter the list elements ")
for i in range(n):
  x=input()
  words.append(x)
ctr=0
for word in words:
  if len(word)>1 and word[0]==word[-1]:
    ctr=ctr+1
print("The number of such words are ",ctr)
```

```
Enter the number of words 4
Enter the list elements
abc
xyz
aba
1221
The number of such words are  2
```

In [ ]:

```
"""
Assignment 2
Q4)Write a Python program to get a list, sorted in increasing order by the last element i
n each tuple from a given list of non-empty tuples.
Sample List : [(2, 5), (1, 2), (4, 4), (2, 3), (2, 1)]
Expected Result : [(2, 1), (1, 2), (2, 3), (4, 4), (2, 5)]
"""
def last_element(n): return n[-1]

def sort_list_last(tuples):
  return sorted(tuples, key=last_element)

print(sort_list_last([(2, 5), (1, 2), (4, 4), (2, 3), (2, 1)]))
```

```
[(2, 1), (1, 2), (2, 3), (4, 4), (2, 5)]
```

In [ ]:

```
"""
Assignment 2
Q5)Write a Python program to shuffle and print a specified list.
"""
from random import shuffle
lis=[]
n=input("Enter the number of elements in list ")
n=int(n)
print("Enter the list elements ")
for i in range(n):
  x=input()
  x=int(x)
  lis.append(x)
shuffle(lis)
print("The list after shuffling is ", lis )
```

```
Enter the number of elements in list 5
Enter the list elements
5
2
6
7
1
The list after shuffling is  [5, 1, 6, 2, 7]
```

In [ ]:

```
"""
Assignment 2
Q6)Write a Python program to reverse a tuple.
```

```python
"""
x = (3,9,6,12,18,15,24)
print("Before reversal ",x)
y = reversed(x)
y=tuple(y)
print("After reversal ",y)
```

```
Before reversal  (3, 9, 6, 12, 18, 15, 24)
After reversal  (24, 15, 18, 12, 6, 9, 3)
```

In [ ]:

```python
"""
Assignment 2
Q7)Write a Python script to merge two Python dictionaries.
"""
d1 = {"abhay": 1, "balbit": 9}
d2 = {"cerberus": 3, "nischay": 2}
print("Dictionary 1: ",d1)
print("Dictionary 2: ",d2)
d = d1.copy()
d.update(d2)
print("Merged Dictionary : ",d)
```

```
Dictionary 1:  {'abhay': 1, 'balbit': 9}
Dictionary 2:  {'cerberus': 3, 'nischay': 2}
Merged Dictionary :  {'abhay': 1, 'balbit': 9, 'cerberus': 3, 'nischay': 2}
```