

classFirstPythonProject - C:\Users\SanioLuke\Documents\Amal Jyothi College\Practicals\Python Programming\22-11-2021\lab_cycle_2.py

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lab_cycle_2.py

Run: lab_cycle_2

```
C:\Users\SanioLuke\PycharmProjects\classFirstPythonProject\venv\Scripts\python.exe "C:/Users/SanioLuke/Documents/Amal Jyothi College/Practicals/Python Programming/22-11-2021/lab_cyc

***** 1st Question *****

(a) Generate positive list of numbers from a given list of integers
Enter the size of the list of positive and negative integers : 4
1
2
3
-1
List of positive integers is : [1, 2, 3]

(b) Square of N numbers
Enter the value of N : 4
Squares of 1 to 4 are :
1 -> 1
2 -> 4
3 -> 9
4 -> 16

(c) Form a list of vowels selected from a given word
Enter the string : Neil Armstrong
The vowels in the word given are :
e, i, a, o,

(d) List ordinal value of each element of a word (Hint: use ord() to get ordinal values)
Enter the word : Sample
S -> 83
a -> 97
```

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120:1 LF UTF-8 4 spaces Python 3.9 (classFirstPythonProject)

ENG IN 11:00 AM 27-11-2021

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```
(d) List ordinal value of each element of a word (Hint: use ord() to get ordinal values)
Enter the word : Sample
S -> 83
a -> 97
m -> 109
p -> 112
l -> 108
e -> 101

***** 2nd Question *****

Prompt the user for a list of integers. For all values greater than 100, store 'over' instead.
Enter the size for the list : 4
Enter the numbers in the list :
100
3
-53
200
The created list is : [100, 3, -53, 'Over']

***** 3rd Question *****

Store a list of first names. Count the occurrences of 'a' within the list
Enter the size of the list of names : 3
Lio
Gracy
Francis
Occurrences of a in the list of first names is : 2
```

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Lio
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Occurrences of a in the list of first names is : 2

***** 4th Question *****

List 1 : [5, 6, 32, 6, 2]
List 2 : [39, 4, 6, 2]

(a) Whether list are of same length
The lengths of two lists are different !! list1 -> 5 and list2 -> 4
(b) whether list sums to same value
The list sums are equal i.e. 51
(c) whether any value occur in both
6 occurs in both
6 occurs in both
2 occurs in both

***** 5th Question *****

Get a string from an input string where all occurrences of first character replaced with '$', except first character. [eg: onion -> oni$n]
Enter the string word : Momento
The string is : Momento
```

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Get a string from an input string where all occurrences of first character replaced with '$', except first character. [eg: onion -> oni$n]
Enter the string word : Momento
The string is : Momento
Newly formed string according to the question is : Mo$ento

***** 6th Question *****

Accept the radius from user and find area of circle.
Enter the radius : 10
Are of the circle with radius 10 is 314.1592653589793 m2

***** 7th Question *****

Write a program to Print list in reverse order using a loop.
The list is : [4, 1.4, 53, 'Cain', 3]
The list in reversed order is : [3, 'Cain', 53, 1.4, 4]

***** 8th Question *****

Create a single string separated with space from two strings by swapping the character at position 1.
Enter the string 1 : Karl
Enter the string 2 : Marx
Result of the two strings : Marl Karx

***** 9th Question *****
```

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***** 9th Question *****

Write a Python Program for compound interest.
Enter the initial principal balance/amount : 1000000
Enter the interest rate : 3.5
Enter the time period : 10
The compound interest of the amount according to the values entered : 1410598.760621121

***** 10th Question *****

Implement Python Script to generate prime numbers series up to n.
Enter the limit for the series : 10
The list of prime numbers until 10 are : 2, 3, 5, 7,
Process finished with exit code 0
```

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