PYTHON: Assignment 1.

Instructions:

- 1. Solve All Problems using function.
- 2. Submit your solutions to our class' email address before 12 today.

1. Take a List of String as input from user and Print Vowels and Consonants in Each String separately.

```
Input: shashi ,ashish, kanha ,rahul
```

```
Output: In string Shashi, Vowels: a,i consonants: shsh In string Ashish, Vowels: a,i consonants: shsh In string Kanha, Vowels: a,a consonants: knh In string Rahul, Vowels: a,u consonants: r, h, l
```

2.Write a Program to take input in Set, if Set has even number of elements, print set is even, else print middle element of set

```
Input:

Set1 = {"apple", "banana", "Cherry",}

Output:

"Middle Element is "banana"

Input:

Set1 = {"apple", "banana", "Cherry", "chocolate"}

Output:

Set is Even
```

3. Write a Program to take Dictionary as input from user, if one's key is value of other pair, remove entry of that key from dictionary.

Input:

Dictionary: {"brand" : apple, "1": rahul, "samsung":brand}

Output: {"1":rahul, "samsung":brand}

4..Write a Program to accept integer as input in tuple ,print addition of all elements.

Input:

my_tuple = (4, 2, 3, 8,10)

Output: 27

5.Write a Program to accept string array from user, if reverse of string appears in array ,Print Occurrence Count.(use numpy array)
Input:

OutPut:

Reverse string of ford appeared 2 times.

6. Write a Program to take two integer arrays from user, add both array and Store the addition in 3rd array then print 3rd Array. (use numpy array)

Input:

$$Arr2 = [5, 6, 7, 8, 9]$$

Output:

7. Write a Program to take integer Array from User, then Check if number is armstrong or strong number, print accordingly. (use numpy array) Input:

Output:

153 is armstrong number

8. Write a program that Accepts Integer Array from User, and Print Occurrence Count of 1 .(use numpy array)

Input:

Output: 1 Appeared 6 times

9. Write a Program to take two integer arrays of same length from user, multiply both array and Store the multiplication in 3rd array then print 3rd Array. (use numpy array)

Input:

Output:

10. Write a Program To Accept 2 built-in integer arrays from user ,Then Calculate Average of 1'st Array and Check if it's available in 2nd array. Input:

Output:

Average of Array1 6 is available in Array2

11. Write a Program To Accept 2 built in integer arrays from user ,then print index of element in second array if its cube of element in first array.

Input:

Output:

Index of 8 which is cube of 2 is 2 Index of 64 which is cube of 4 is 3

12. Write a Program To Take range as input from user, Print Occurrence count of 1 in that range.

Input: 20

Output:11

13. Write a Program to Print Following Program.

= 4

= B A

= C B A

14. Write a Program to Print Following Program.

A B A

B A B C

D C B A B C

D

15. Write a Program to Print Following Program.

100

81 64

49 36 25

16 9 4 1

16. Write a Program to Print Following Program.

1 2 3 4 5 6 7 2 3 4 5 6 3 4 5

4

G

17. Write a Program to Print Following Program.

A B C

A B C D E F

18. Write a Program to Print Following Program.

1 1 2 3 5 8 13 21 34 55

19. Write a Program to print Following Program

1 2 1 2 1 3 1 2 3 4 2 3 1 1 2 1

20. Write a Program to Print Following Program.

Α Α В В В C Α В C C В В D Α Α C В В Α В Α