1. Write a program in Python to accept an integer value in variable N from the user and display its content in the following patterns.

Sample output:

Enter Integer: 5		
1	54321	1
12	4321	121
123	321	12321
1234	21	1234321
12345	1	123454321

2. Write a program in Python to accept an integer value in variable N from the user and display its content in the following patterns.

Sample output:

1	1	
22	222	
333	33333	
4444	444444	
55555	5555555	
	333 4444	333 33333 4444 4444

3. Write a program in Python to accept a string from a user and display its content in the following patterns.

Sample output:

Enter String: GOGREEN G GO GOG GOGR GOGRE GOGREE GOGREE	GOGREEN GOGREE GOGRE GOGR GOG	G GO GOG GOGR GOGRE GOGREE GOGREEN
GOGREEN		GOGREEN

4. Write a program in Python to accept a string from a user and display its content in the following patterns.

Sample output:

Enter String: WATER		
w	R	w w
A	E	A A
Т	т	т т
E	A	EE
R	w	R

5. Write a program in Python to accept a string from the user and show only non vowels (display underscore _ symbol in place of vowel).

Sample output:

Enter String: WATER	Enter String: PEACE
W_T_R	PC_

6. Write a program in Python to accept a word WRD and a sentence STC as strings from the user. Find the presence or absence of the word WRD in the sentence STC (Without using if WRD in STC).

Sample output:

Sentence: A small box in the big box

Word: box
Status: Found

7. Write a program in Python to accept a sentence as a string from the user. Find the total number of words present in the string (Without using in operator with if)

Sample output:

Sentence: A small box in the big box

Total Number of Words: 7

8. Write a program in Python to accept a word WRD and a sentence STC as strings from the user. Find the positions of each occurrence of word WRD in the sentence STC. (Can use split() function)

Sample output:

Sentence: A small box in the big box

Word: box

Positions: 8, 23,

9. Write a program in Python to accept a string S from a user and display an encoded content of S containing the reverse of the first 3 characters and last 3 characters.

Sample output:

Enter S: HALF OF THE TEAM	Enter S: MOHAN'S TEAM SCORED 345
Coded S: LAHEAM	Coded S: HOM345

10. Write a program in Python to accept a string S from a user and display an encoded content of S containing the reverse of characters of first half of S and original order of characters of second half of the S.

Sample output:

Enter S: ABCDEFGHI	Enter S: ABCDEFGH
Coded S: EFGHIDCBA	Coded S: EFGHDCBA

11. Write a program in Python to accept a string from a user and display the count of occurrence of vowels, digits and consonants in it.

Sample output:

Enter Message: SAVE WATER	Enter Message: 10 HAFTE 10 BAJE
VOWELS: 4	VOWELS: 4
CONSONANTS: 5	CONSONANTS: 5
DIGITS: 0	DIGITS: 4
	1

12. Write a program in Python to accept a string from a user and check if it is Palindrome or not.

Sample output:

Enter String: NITIN	Enter String: DELHI
It is a PALINDROME	It is not a PALINDROME

- 13. Write a Python code to create a two player word guessing game with the help of following steps.
 - 1. Accept a string **Str** from User1 [accept only those strings, which are less than 10 alphabets]
 - 2. Scroll the screen with the help of print statements to hide the User1's string.

- 3. Display the content of string by showing consonants' position as underscore _ and vowels as it is. Name it as GuessedStr
- 4. Accept a single alphabet from User2
- 5. If alphabet entered by the User2 matches with one of the alphabets of User1's string, re-display the GuessStr with the alphabet at appropriate place
- 6. Repeat steps 4 and 5 till the user consumes his 10 chances of guessing all the correct letters of **Str**.
- 7. At the end display score as 20 No. of attempts by User2. Deduct 2 points for every re-input of the same alphabet again.

Sample output:

```
User1 String: WATER CONSERVATION
Re-Enter [Not more than 10 letters]
User1 String: WATER
Hint: A E
User2 Guess [1]: U
** U not matching with any
User2 Guess [2]: W
Hint: WA E
User2 Guess [3]: K
** K not matching with any
User2 Guess [4]: W
** You lose 2 points for re-entering the same letter
User2 Guess [5]: R
Hint: WA ER
User2 Guess [6]: T
Great - Well done, you guessed right, it is WATER
Your Score: 12
[i.e. Full score 20 - Penalty 2 - Number of Times 6]
```

IMPORTANT: REFER TO MORE QUESTIONS GIVEN IN ASSIGNMENT BOOKLET

General Instructions:

iii.

 Type the solutions of all the problems using Python Language on Python IDLE or colab.research.google.com

ii. Type in the following on top of each of your program as comment lines

```
# -----#
# List-Program No : L3-P1
# Developed By : Sukrit Joy
```

Date : 17-Aug-2023

- On successful execution with meaningful data, **copy** and **paste** the sample output at the bottom of the program as comment lines.
- iv. "Turn in" the softcopy of the programs as a single document in response to this assignment submission with each program on separate pages. Once verified by the teacher, take out a hardcopy of each program on separate pages from the printer and get them signed by the respective computer teacher. Add all the printouts in the practical file and get the Index entry also signed.
- v. Recommended Font, "Courier New", Style "Bold" Size "10" for all programs with single line spacing. Default indentation 2 Character only.