PYTHON PROGRAMMING USING - LIST

1. Reverse a list in Python
2. Concatenate two lists index-wise
3. Turn every item of a list into its square
4. Concatenate two lists in the following order
5. Iterate both lists simultaneously
6. Remove empty strings from the list of strings
7. Add new item to list after a specified item
8. Extend nested list by adding the sublist
9. Replace list's item with new value if found
10. Remove all occurrences of a specific item from a list.

1. Write a Python program to find those numbers which are divisible by 7 and multiples of 5, between 1500 and 2700
2. Write a Python program to guess a number between 1 and 9.
3. Write a Python program to construct the following pattern, using a nested for loop.

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```

4. Write a Python program that accepts a word from the user and reverses it.
5. Write a Python program to count the number of even and odd numbers in a series of numbers
6. Write a Python program that prints all the numbers from 0 to 6 except 3 and 6.
   Note : Use 'continue' statement.
   Expected Output : 0 1 2 4 5
7. Write a Python program that accepts a sequence of lines (blank line to terminate) as input and prints the lines as output (all characters in lower case).
8. Write a Python program that accepts a string and calculates the number of digits and letters
9. Write a Python program to calculate a dog's age in dog years.
   Note: For the first two years, a dog year is equal to 10.5 human years. After that, each dog year equals 4 human years.
   Expected Output:
   Input a dog's age in human years: 15
   The dog's age in dog's years is 73
10. Write a Python program to check whether an alphabet is a vowel or consonant.
    Expected Output:
    Input a letter of the alphabet: k
    k is a consonant
11. Write a Python program to convert a month name to a number of days.
    Expected Output:
    List of months: January, February, March, April, May, June, July, August
    September, October, November, December
    Input the name of Month: February
    No. of days: 28/29 days
12. Write a Python program to calculate the sum and average of n integer numbers (input from the user).
13. Write a Python program to construct the following pattern, using a nested loop number.
    Expected Output:

```
1
22
```

```
333
4444
55555
666666
7777777
88888888
999999999
```

14. Write a program to find whether an inputted number is perfect or not
15. Write a Program to check if the entered number is Armstrong or not.