**Python Programs for Practice :->>**

1. Write a Python program to get the Fibonacci series between 0 to 50.
2. Write a Python program to find those numbers which are divisible by 7 and multiple of 5, between 1500 and 2700
3. Write a Python program to construct the following pattern, using a nested for loop.

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1. Write a Python program that accepts a word from the user and reverse it.
2. Write a Python program which iterates the integers from 1 to 50. For multiples of three print "Fizz" instead of the number and for the multiples of five print "Buzz". For numbers which are multiples of both three and five print "FizzBuzz".
3. Write a Python program that accepts a string and calculate the number of digits and letters.
4. Write a Python program to check the validity of password input by users.

Validation :

* At least 1 letter between [a-z] and 1 letter between [A-Z].
* At least 1 number between [0-9].
* At least 1 character from [$#@].
* Minimum length 6 characters.
* Maximum length 16 characters.

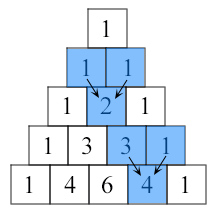
1. Write a Python function that takes a number as a parameter and check the number is prime or not.   
   Note : A prime number (or a prime) is a natural number greater than 1 and that has no positive divisors other than 1 and itself.
2. Write a Python function that checks whether a passed string is palindrome or not.

Note: A palindrome is a word, phrase, or sequence that reads the same backward as forward, e.g., madam or nurses run.

1. Write a Python function that prints out the first n rows of Pascal's triangle.

Note : Pascal's triangle is an arithmetic and geometric figure first imagined by Blaise Pascal.

Sample Pascal's triangle :



Each number is the two numbers above it added together

1. Write a Python script to display the –

a) Current date and time  
b) Current year  
c) Month of year  
d) Week number of the year  
e) Weekday of the week  
f) Day of year  
g) Day of the month  
h) Day of week

12. Write a Python program to determine whether a given year is a leap year.

13. Write a Python program to print the floating point from mantissa, exponent pair.

Expected Output :

Mantissa Exponent Floating point value

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0.70 -3 0.09

0.30 0 0.30

0.50 3 4.00

14. Write a Python program to convert a decimal number to binary number.

Expected Output :

Input a binary number: 101011

The decimal value of the number is 43

15. Write a Python program to calculate the length of a string.

16. Write a Python program to get the largest and Smallest number from a list.

17. Write a Python program to get the difference between the two lists.

18. Write a Python program to check whether an element exists within a tuple.

19. Write a Python program to convert a list to a tuple.

20. Write a Python program to create an Union,intersection and difference of sets.

21. Write a Python program to issubset and issuperset.

22. Write a Python script to concatenate following dictionaries to create a new one.

Sample Dictionary :   
dic1={1:10, 2:20}   
dic2={3:30, 4:40}   
dic3={5:50,6:60}  
Expected Result : {1: 10, 2: 20, 3: 30, 4: 40, 5: 50, 6: 60}

23. Write a Python script to check if a given key already exists in a dictionary.

24. Write a Python program to read last n lines of a file.

25. Write a Python program to count the number of lines in a text file.

26. Write a Python program to copy the contents of a file to another file .

27. Write a Python class to implement pow(x, n)

28. Write a Python class to reverse a string word by word.

29. Write a Python class named Circle constructed by a radius and two methods which will compute the area and the perimeter of a circle.

30. Write a Python program to replace all occurrences of space, comma, or dot with a colon.