1. Write a Python program to check the validity of a password (input from 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 program to find those numbers which are divisible by 7 and multiple of 5, between 1500 and 2700 (both included).
2. **2.**Write a Python program to convert temperatures to and from celsius, fahrenheit.    
   [ Formula : c/5 = f-32/9 [ where c = temperature in celsius and f = temperature in fahrenheit ]  
   Expected Output :  
   60°C is 140 in Fahrenheit  
   45°F is 7 in Celsius
3. Write a Python program that prints each item and its corresponding type from the following list.  
   Sample List : datalist = [1452, 11.23, 1+2j, True, 'w3resource', (0, -1), [5, 12], {"class":'V', "section":'A'}]
4. Write a Python program which takes two digits m (row) and n (column) as input and generates a two-dimensional array. The element value in the i-th row and j-th column of the array should be i\*j.    
   Note :  
   i = 0,1.., m-1  
   j = 0,1, n-1.

Test Data : Rows = 3, Columns = 4  
Expected Result : [[0, 0, 0, 0], [0, 1, 2, 3], [0, 2, 4, 6]]

1. Write a Python program which accepts a sequence of comma separated 4 digit binary numbers as its input and print the numbers that are divisible by 5 in a comma separated sequence.    
   Sample Data : 0100,0011,1010,1001,1100,1001  
   Expected Output : 1010
2. Write a Python program that accepts a string and calculate the number of digits and letters.    
   Sample Data : Python 3.2  
   Expected Output :  
   Letters 6  
   Digits 2
3. **31.**Write a Python program to calculate a dog's age in dog's 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

1. Write a Python program to convert 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

1. Write a Python program to check a triangle is equilateral, isosceles or scalene.    
   Note :  
   An equilateral triangle is a triangle in which all three sides are equal.  
   A scalene triangle is a triangle that has three unequal sides.  
   An isosceles triangle is a triangle with (at least) two equal sides.  
   *Expected Output:*

Input lengths of the triangle sides:

x: 6

y: 8

z: 12

Scalene triangle

1. Write a Python program that reads two integers representing a month and day and prints the season for that month and day.    
   *Expected Output:*

Input the month (e.g. January, February etc.): july

Input the day: 31

Season is autumn

1. Write a Python program to display astrological sign for given date of birth.    
   *Expected Output:*

Input birthday: 15

Input month of birth (e.g. march, july etc): may

Your Astrological sign is : Taurus

1. Write a Python program to read an entire text file.
2. Write a Python program to read first n lines of a file.
3. Write a Python program to append text to a file and display the text.
4. Write a Python program to read last n lines of a file.
5. Write a Python program to read a file line by line and store it into a list.
6. Write a Python program to read a file line by line store it into a variable.
7. Write a Python program to read a file line by line store it into an array.
8. Write a python program to find the longest words.
9. Write a Python program to count the number of lines in a text file.
10. Write a Python program to count the frequency of words in a file.
11. Write a Python program to get the file size of a plain file.
12. Write a Python program to write a list to a file.
13. Write a Python program to copy the contents of a file to another file .
14. Write a Python program to combine each line from first file with the corresponding line in second file.
15. Write a Python program to read a random line from a file.
16. Write a Python program to assess if a file is closed or not.
17. Write a Python program to remove newline characters from a file.