1. **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 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 to count the number of even and odd numbers from a series of numbers.    
    *Sample numbers* : numbers = (1, 2, 3, 4, 5, 6, 7, 8, 9)   
    *Expected Output* :   
    Number of even numbers : 5  
    Number of odd numbers : 4**
3. **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**
4. **Write a Python program to get the Fibonacci series..**
5. **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 that accepts a string and calculate the number of digits and letters.    
    Sample Data : Python 3.2  
    Expected Output :  
    Letters 6   
    Digits 2**
2. **Write a Python program to print alphabet pattern 'E'.**

***Expected Output:***

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**\*\*\*\***

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**\*\*\*\*\***

1. **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.**

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 valid or not.  *Expected Output:***

**Input the length of side1: 5**

**Input the length of side2: 4**

**Input the length of side3: 6**

**The triangle is valid.**

1. **Write a Python program to check a string represent an integer or not. *Expected Output:***

**Input a string: Python**

**The string is not an integer.**

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. **38. 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 find the median of three values.  *Expected Output:***

**Input first number: 15**

**Input second number: 26**

**Input third number: 29**

**The median is 26.0**

1. **Write a Python program to get next day of a given date. *Expected Output:***

**Input a year: 2016**

**Input a month [1-12]: 08**

**Input a day [1-31]: 23**

**The next date is [yyyy-mm-dd] 2016-8-24**

1. **Write a Python program to calculate the sum and average of n integer numbers (input from the user). Input 0 to finish.**
2. **Write a Python program to create the multiplication table (from 1 to 10) of a number. *Expected Output:***

**Input a number: 6**

**6 x 1 = 6**

**6 x 2 = 12**

**6 x 3 = 18**

**6 x 4 = 24**

**6 x 5 = 30**

**6 x 6 = 36**

**6 x 7 = 42**

**6 x 8 = 48**

**6 x 9 = 54**

**6 x 10 = 60**

1. **Write a Python program to construct the following pattern, using a nested loop number. *Expected Output:***

1

2 2

3 3 3

4 44 4

5 5 5 5 5

6 6 6 6 6 6

7 7 7 7 7 7 7

8 8 8 8 8 8 8 8

9 9 9 9 9 9 9 9 9