Asignment

Q1. 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]

Q2. Write a Python program to construct the following pattern, using a nested for loop.

- Q3. Write a Python program to get the Fibonacci series between 0 to 50.
- **Q4.** 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.
- **Q5.** 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. Go to the editor

Sample Data: 0100,0011,1010,1001,1100,1001

Expected Output: 1010

- **Q6.** Write a Python program that accepts a string and calculate the number of digits and letters.
- **Q9.** 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.

Q10. Write a Python program to find numbers between 100 and 400 (both included) where each digit of a number is an even number. The numbers obtained should be printed in a comma-separated sequence.

Q11. Write a Python program to check whether an alphabet is a vowel or consonant.

Q12. Write a Python program to convert month name to a number of days

Q13. 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.

Q14. Write a Python program to get next day of a given date.

Q15. Write a Python program to create the multiplication table of a number.

Q16. Write a Python program to construct the following pattern, using a nested loop number.

Expected Output: