Exercise 1 : Credential validation

Get username and password from credentials.csv

Store them in a dictionary, with username as key and password as value only if
- i) username is not blank
- ii) password is not blank
- ii) username contains at least 8 chars
- iii) password contains at least 10 chars

If is_password_enabled is False and if password is blank, do not store the credential in dictionary
If is_password_enabled is True and if password is blank, generate a password for the user using random module of Python.

Exercise 2 : Sorting of states

Store the list of all Indian states (or at least 10 to 15 states).

Using that list from above, create a dictionary with keys as states and capitals as None.

Assign the capital for all those states.

Print the dictionary by alphabetical sorting of their states.

Exercise 3 : Guess random number

Write a Python program to guess any random number.

If user enters a number between 1 to 100 and if that number is divisible by both 5 and 3, print the message ' Your guess is right' .

Else, print 'Your guess is wrong'.

If user enters the message 'stop' instead of number, the program should exit

Exercise 4 : Detect and report vowels

Count of occurrence of vowels in each line from vowels.txt

Find the duplicate occurrences of vowel in each line

Report the non-duplicate counts of vowel in each line and duplicate counts of vowel in each line as two separate dictionaries

Exercise 5 : Multiplication table

Write a Python program to create the multiplication table (from 1 to 10) of a number.

Expected Output:
Input a number: 6

6x1=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