Module 1: Introduction to Python

Case Study

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1. Write a program that will find factors of the given number and find whether the factor is even or odd.

   Hint: Use Loop with if-else statements

2. Write a code that accepts a sequence of words as input and prints the words in a sequence after sorting them alphabetically.

   Hint: In the case of input data being supplied to the question, it should be assumed to be a console input.

3. Write a program, which will find all the numbers between 1000 and 3000 (both included) such that each digit of a number is an even number. The numbers obtained should be printed in a comma-separated sequence on a single line.

   Hint: In case of input data being supplied to the question, it should be assumed to be a console input. Divide each digit with 2 and verify is it even or not.

4. Write a program that accepts a sentence and calculates the number of letters and digits.

   Suppose if the entered string is: Python0325

   Then the output will be:

   LETTERS: 6

   DIGITS:4

   Hint: Use built-in functions of string.

5. Design a code that will find whether the given number is a Palindrome number or not.

   Hint: Use built-in functions of string.