Instructions for Practical Exercise

1. Create a repo Java_Practical_Exercises
2. In your local machine, create a project folder Java_Practical_Exercises
3. Inside the project folder, create a folder Java_language_basics
4. The Java_language_basics folder will contains code files for each PE that you will do for the Java Language Basics topic.
5. Name code files corresponding to PE numbers. For example, Pe1.java is the code file for Practical Exercise 1 (PE 1)
6. Push your project to git

Practical Exercise: Java Language Basics

PE 1: Write a program which accepts a number as input and check whether the given number is palindrome or not If it is a palindrome then

a. Add all the even numbers and check whether the sum is more than 25.

b. Print success and failure messages for all 3 conditions

Input : 2468642

Output : 2468642 is palindrome and the sum of even numbers is greater than 25

Input: 12345

Output: 12345 is not palindrome

Input: 12345654321

Output : 12345654321 is palindrome and sum of even numbers is less than 25

PE 2: Write a program which accepts an integer number as input from the user and perform the following conditional checks:

a. Print Tom if number is odd and exists between 20 to 30

b. Print Jerry, if number is even and exists between 20 and 30

PE 3: Create a program that accepts a word as input and checks for each single character letter in the word whether it is a consonant or vowel.

Condition:

a. Print an error message if the input is not a letter

b. If the input having more than one letter, print the required output

(Vowel or Consonant) for each letter

Input : p

Output : Consonant

Input : ap

Output : Vowel Consonant (should it be a - vowel, p - consonant)

PE: 4 Write a program using a loop to print the following output. 1 2 2 3 3 3 4 4 4 4 5 5 5 5 5 6 6 6 6 6 6 . . . nth iteration.

Input: 5

Output : 1 2 2 3 3 3 4 4 4 4 5 5 5 5 5

PE: 5 Write a program that reads an unspecified number of integer arguments using Scanner Class and adds them together. The program should display total of the given input number and should only consider integer value. The program should display an error message if there are any non integer values

Input : 12 23 2 4

Output : 41