System Requirements Specification Index

For

Python Skills Evaluation

Version 1.0

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USE CASE DESCRIPTION

Use Case 1

Write a Python program to take input of a string from the user and convert it into piglatin encode.
Example:
Input: This is a string
Output: hisTasia aa tringsa

Description

1. Take console input of a string, in **main ()** method, from user.
2. Pass the string to method **get_piglatin()** and write the logic in that method to convert it into piglatin.
3. If input is not string format, then raise ValueError from **get_piglatin ()** function.
4. Return the piglatinstring from **get_ piglatin()** to **main()** and display the piglatin string.

Use Case 2

Write a Python program to take input of a number (N) from user. You have to perform only two types of operation on number
a) If N is odd, increase it by 1
b) If N is even, divide it by 2
Your task is to find the number of operations it takes to make N equal to 1
Constraints: 1<N<=100000

Input: 5
Output: 5

Input: - 4
Output: 0

Description

1. Take console input of number in integer format, in **main ()** method from user.
2. Pass the number to method **count_steps ()** and write the logic in that method to find operation count.
3. If input is not integer, then raise ValueError from **count_steps ()**function.
4. Return the operation count from **count_steps**() to main().
5. If the input number is beyond the given limit then method **count_steps ()** should return 0.

Execution Steps to Follow:

1. All actions like build, compile, running application, running test cases will be through Command Terminal.
2. To open the command terminal the test takers, need to go to

   Application menu (Three horizontal lines at left top) -> Terminal ->New Terminal.

3. The editor Auto Saves the code.
4. If you want to exit(logout) and to continue the coding later anytime (using Save & Exit option on Assessment Landing Page) then you need to use CTRL+Shift+B command compulsorily on code IDE. This will push or save the updated contents in the internal git/repository. Else the code will not be available in the next login.
5. These are time bound assessments the timer would stop if you logout and while logging in back using the same credentials the timer would resume from the same time it was stopped from the previous logout.
6. To run application for use case1 use the following command

   python3 piglatin.py

7. To run application for use case2 use the following command

   python3 operational_steps.py

8. Mandatory: Before final submission run the following command

   python3 -m unittest

9. Once you are done with development and ready with submission, you may navigate to the previous tab and submit the workspace. It is mandatory to click on "Submit Assessment" after you are done with code.
10. You need to use CTRL+Shift+B - command compulsorily on code IDE, before final submission as well. This will push or save the updated contents in the internal git/repository, and will be used to evaluate the code quality.

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