

Python – Palindrome

Purpose

This lab was designed to teach you how to process strings using iteration.

Description

Write a program that repeatedly prompts the user for a word or any sequence of characters and tells the user whether it is a palindrome. A **palindrome** is a word, phrase, number, or other sequence of characters which reads the same backward or forward. For an added challenge, have your function work for sentences (ignore spaces, punctuation, etc. so "A man, a plan, a canal – Panama" returns True).

Program Shell

Create a file named palindrome.py

Sample Execution

```
Enter word (quit to stop): racecar
Palindrome!

Enter word (quit to stop): kayak
Palindrome!

Enter word (quit to stop): Level
Palindrome!

Enter word (quit to stop): 1234554321
Palindrome!

Enter word (quit to stop): schadenfreude
NOT a palindrome!

Enter word (quit to stop): alas
NOT a palindrome!

Enter word (quit to stop): A man, a plan, a canal - Panama
Palindrome!

Enter word (quit to stop): Are we not pure? "No, sir!" Panama's
moody Noriega brags. "It is garbage!" Irony dooms a man-a prisoner
up to new era.
Palindrome!

Enter word (quit to stop): quit
```