

PYTHON

Assignment

- 1. Write a program to reverse the string "Python" and print the reversed string.
- 2. Write a program to check if the string "madam" is a palindrome (a word that reads the same forwards and backwards).
- 3. Write a program to count the number of vowels in the string "This is an example sentence."
- 4. Given the string "Programming is awesome", extract and print the substring "awesome".
- 5. Write a program to replace every second character in the string "1234567890" with an asterisk (*).
- 6. Convert the string "hello world from python" to title case, where each word starts with an uppercase letter.
- 7. Given the string "banana", find and print the index of the last occurrence of the letter "a".
- 8. Write a program to split the sentence "Learning Python is fun" into words, reverse the order of words, and then join them back into a sentence.
- 9. Compare the two strings "data" and "DATA" for equality, ignoring the case.
- 10. Given the string "spaced out ", write a program to remove all whitespaces and print the result.
- 11. Write a program to calculate the frequency of each character in the string "apple".

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- 12. Write a program to check if a given string follows the format of a valid email address (e.g., contains "@" and ".").
- 13. Write a program to count the number of words in the sentence "Python is a great programming language."
- 14. Write a program to toggle the case of all characters in the string "PyThOn Is FuN". (Uppercase letters should become lowercase, and vice versa.)
- 15. Given the sentence "The quick brown fox jumps over the lazy dog", replace the word "fox" with "cat" only if it is the 4th word in the sentence.

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