**Programming Assignment Unit 5**

Dept. of Computer Science, University of the People

CS 1101-01: Programming Fundamentals

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**1. Display n characters from the left**

# Get the user's name

name = input("What's your name? ")

# Ask the user for the number of characters

num\_chars = int(input("How many characters do you want to display from the beginning? "))

# Check if the number is valid (positive and not exceeding name length)

if num\_chars <= 0:

print("Please enter a positive number.")

elif num\_chars > len(name):

print(f"Your name '{name}' only has {len(name)} characters.")

else:

# Extract and display the first n characters using slicing

print(f"The first {num\_chars} characters are: {name[:num\_chars]}")

**Input:**

Name: John Wick

How many characters do you want to display from the beginning?  
5

**Output:**

The first 5 characters are: John

**2. Count the number of vowels**

# Define the vowels (case-insensitive)

vowels = "aeiouAEIOU"

vowel\_count = 0

# Count vowels by iterating through each character and checking if it's in the vowel string

for char in name:

if char in vowels:

vowel\_count += 1

# Print the vowel count

print(f"Your name has {vowel\_count} vowels.")

**Output:**

Your name has 2 vowels.

**3. Reverse the name**

# Reverse the name using slicing with an empty step

reversed\_name = name[::-1]

# Print the reversed name

print(f"Your name spelled backward is: {reversed\_name}")

**Output:**Your name spelled backward is: kciW nhoJ

**Reference:**

Downey, A. (2015). Think Python: How to think like a computer scientist.