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Exploring Python Functions
Objectives:

    Describe the function concept and the importance of function
    Write a function that takes inputs and performs tasks
    Whe built in functions like built, sunt), and others effectively
    Define and use your functions in Python
    Define the properties of the properties o
 How functions take inputs, perform tasks, and produce outputs
   To use a built-in function, you simply call the function's name followed by pare
Here are a few examples of commonly used built-in functions:
len0: Calculates the length of a sequence or collection
       1. 1
2. 2
1. string_length = len("Wello, Norld!")  # Output: 12
2. list_length = len([1, 2, 3, 4, 5])  # Output: 5

    Parameters are like inputs for functions
    They go inside parentheses when defining the function
    Functions can have multiple parameters

         5.5
1. def great (name):
2. def priot("Aullo," + name)
3. newalt = greet("Allo,"
4. newalt = greet("Alloe")
5. print(result) # Gurpur: Hello, Alice
apped
scotrings (Documentation Strings)

    Docstrings explain what a function does
    Placed inside triple quotes under the function definition
    Helps other developers understand your function

 1. def multiply(a, b):
2. This function multiplies two number
4. Imput a (number), b (number)
5. Output: Product of a and b
7. print(a b)
6. multiply(2,6)
 1. (dota), arrints * 'T's global'

[Gapted]

This line initializes a global variable called global variable and assigns it the value 'T'm global'.

Global variables are accessible throughout the entire program, both inside and outside functions
     1. def example function():
2. local variable = "I"m local"
2. print[global variable) # Accessing global variable
4. print[local_variable) # Accessing local variable
           A local variable named local variable is declared and initialized with the string value "I'm local." This variable is local to the function and can only be accessed within the function's scope.

The function then prints the values of both the global variable (global variable) and the local variable (local variable). It demonstrates that you can access global and local variables within a function
 Part 3: Function call
   In this part, you call the example function() by invoking it. This results in the function's code being executed. As a result of this function call, it will print the values of the global and local variables within the function.
 1. \ 1 1. \ \# \ print(local\_variable) \ \# \ firms, \ local\ variable \ not \ visible \ here \\ \hline \ Copiedl
   Using functions with loops
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