1) Write a function called "find_longest_word" that takes a sentence as a string and returns the longest word in the sentence. The function should ignore punctuation and consider only alphabetic characters.

2) Write a function called "reverse_string" that takes a string as an argument and returns the reverse of that string. Implement the function using a loop and without using built-in string reversal functions.

3) Create a function called "find_common_elements" that takes two lists as arguments and returns a new list containing the common elements between the two lists.

4) Develop a function called "capitalize_words" that takes a sentence as a string and returns the sentence with each word capitalized.

```
def capitalize_words(words):
    return words.capitalize()
print("before capitalize")
words=input("Enter The Words = ")
print("After capitalize = ",capitalize_words(words))

before capitalize
Enter The Words = ajith
After capitalize = Ajith
```

5) Write a function called "calculate_power" that takes two numbers as arguments, a base and an exponent, and returns the result of raising the base to the exponent.

```
In [91]: def calculate_power(num1, num2):
    return num1**num2
num1=int(input("Enter number 1 = "))
num2=int(input("Enter Number 2 = "))
print("Power Of the Value = ", calculate_power(num1, num2))

Enter number 1 = 10
Enter Number 2 = 3
Power Of the Value = 1000
```

6) Develop a function called "count_vowels" that takes a string as an argument and returns the number of vowels (a, e, i, o, u) in the string.

```
In [118...

def count_vowels(words):
    vowels = "aeiou"
    for i in vowels:
        print(i,"=", words.count(i))
    words = input("Please type a sentence: ")
    count_vowels(words)

Please type a sentence: ajith krishna palakkad
    a = 5
    e = 0
    i = 2
    o = 0
    u = 0
```