

Assignment_3

PB1_

Write a Python function to sum all the numbers in a list.

```
def sum_numbers(numbers):
```

```
    total = 0
```

```
    for num in numbers:
```

```
        total += num
```

```
    return total
```

```
# Test the function
```

```
sample_list = [8, 2, 3, 0, 7]
```

```
result = sum_numbers(sample_list)
```

```
print(result)
```

Output:

20

PB2_

Write a Python program to reverse a string

```
def reverse_string(string):
```

```
    return string[::-1]
```

```
# Test the program
```

```
sample_string = "1234abcd"
```

```
result = reverse_string(sample_string)
```

```
print(result)
```

Output:

dcba4321

Assignment_3

PB3_

Write a Python function that accepts a string and calculate the number of upper case letters and lower case letters.

```
def count_upper_lower(string):  
    upper_count = 0  
    lower_count = 0  
    for char in string:  
        if char.isupper():  
            upper_count += 1  
        elif char.islower():  
            lower_count += 1  
    return upper_count, lower_count
```

Test the function

```
sample_string = 'The quick Brown Fox'  
upper, lower = count_upper_lower(sample_string)  
print("No. of Upper case characters:", upper)  
print("No. of Lower case characters:", lower)
```

Output:

No. of Upper case characters: 3

No. of Lower case characters: 12