

MACHINE PROBLEM

4

Type of Collection

<Guillermo, Justine Rome > <W22> <February 5, 2020> Create a Python program using custom defined function that will simulate execute the following statement.

- 1. Get the numbers of vowels on a given string
- 2. Check if the given string is palindrome (incase sensitive)
- 3. Get the sum of the numbers found on a given string
- 4. Get the number of words found on a given string

Source Code 1:

Output 1:

```
Enter a string: vOwels are Awesome
Number of Vowels = 8
Process finished with exit code 0
```

Source Code 2:

```
# Number 2
def check_palindrome(word_string):
    new_word = word_string[::-1]
    value = "Not a Palindrome"
    if new_word == word_string:
        value = "Palindrome"
    return value

input_word = str(input("Enter a string: "))
print(check_palindrome(input_word), end='')
```

Output 2:

```
Enter a string: teet

Palindrome

Process finished with exit code 0

Enter a string: tree

Not a Palindrome

Process finished with exit code 0
```

Source Code 3:

```
# Number 3
def sum_of_numbers(word_string):
    count = 0
    for x in word_string:
        if x.isnumeric():
            count += int(x)
        return count
input_word = str(input("Enter a string: "))
print("Sum of Numbers = ", sum_of_numbers(input_word), end='')
```

Output 3:

```
Enter a string: I am 19 years old my birthyear is 2000

Sum of Numbers = 12

Process finished with exit code 0
```

Source Code 4:

```
# Number 4
def number_of_words(word_string):
    count = 0
    for x in word_string.split(' '):
        count += 1
    return count
input_word = str(input("Enter a string: "))
print("Numbers= of Words = ", number_of_words(input_word), end='')
```

Output 4:

```
Enter a string: Python is so easy but so much in syntax to remember

Numbers= of Words = 11

Process finished with exit code 0
```