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Section: IT- 3 A

Department: BS-IT

Course: Artificial Intelligence

Lab Task: Lab #06

● **Task 01:-** Write a Python function that takes a number as input and returns the sum of its digits.

```python
def sum_of_digits(number):
    return sum(int(digit) for digit in str(number))

number = int(input("Enter a number: "))
print("Sum of digits:", sum_of_digits(number))
```



```
PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS   SQL CONSOLE                                    ⟩_ Python  + ∨  ⬚  🗑  …  ∧  X

PS C:\Users\PMYLS> & C:/Users/PMYLS/AppData/Local/Programs/Python/Python312/python.exe c:/Users/PMYLS/OneDrive/Desktop/Functions
.py
Saeed
PS C:\Users\PMYLS> & C:/Users/PMYLS/AppData/Local/Programs/Python/Python312/python.exe c:/Users/PMYLS/OneDrive/Desktop/Functions
.py
Enter a number: 34
Sum of digits: 7
PS C:\Users\PMYLS>

                                                    Ln 1, Col 1 (170 selected)   Spaces: 4   UTF-8   CRLF   {} Python   3.12.2  ◌
```
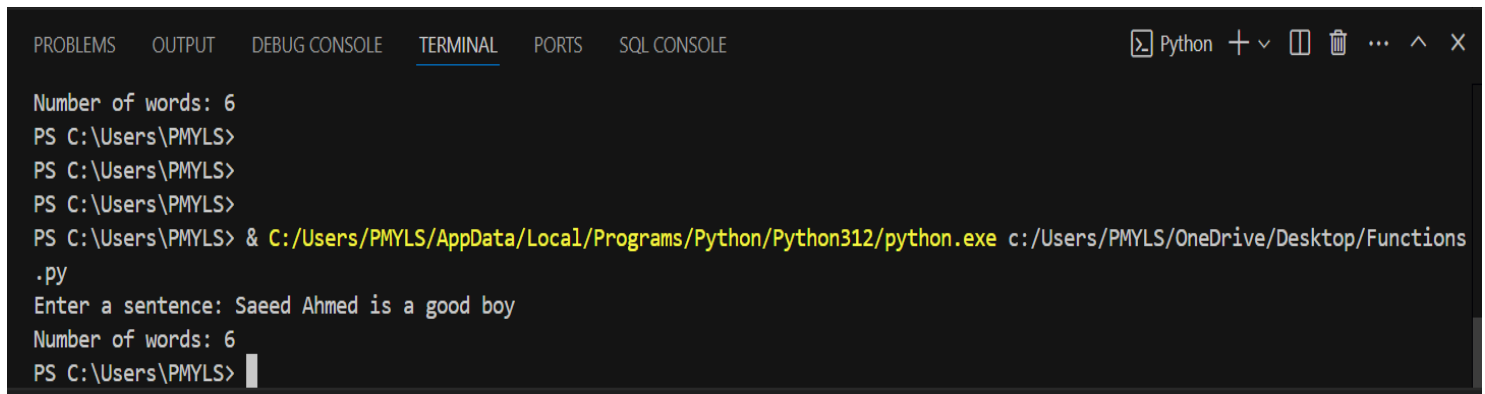
● **Task 02:-** Write a Python function that takes a sentence as input and returns the number of words in it.

```python
def count_words(sentence):
    return len(sentence.split())
```

sentence = input("Enter a sentence: ")

print("Number of words:", count_words(sentence))

● **Task 03:-** Write a Python function that takes an integer and returns whether the number is even or odd.

```python
def check_even_odd(number):
    return "Even" if number % 2 == 0 else "Odd"

number = int(input("Enter a number: "))
print("The number is:", check_even_odd(number))
```

```
PS C:\Users\PMYLS> & C:/Users/PMYLS/AppData/Local/Programs/Python/Python312/python.exe c:/Users/PMYLS/OneDrive/Desktop/Functions
.py
Enter a number: 13
The number is: Odd
PS C:\Users\PMYLS> & C:/Users/PMYLS/AppData/Local/Programs/Python/Python312/python.exe c:/Users/PMYLS/OneDrive/Desktop/Functions
.py
Enter a number: 22
The number is: Even
PS C:\Users\PMYLS>
```

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