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***BIT-23F-021***

***SECTION: “B”***

***ARTIFICIAL INTELLIGENCE***

***LAB 6***

***ASSIGNMENT***

***MISS: AQSA***

**TASK 01:**

**Q:** Write a Python function that takes a number as input and returns the sum of its digits?

**CODE:**

def sum\_of\_digits(number):

return sum(int(digit) for digit in str(abs(number)))

number = int(input("Enter a number: "))

print("The sum of the digits is:", sum\_of\_digits(number))

**OUTPUT:**

Enter a number: 234

The sum of the digits is: 9

=== Code Execution Successful ===

**TASK 02:**

**Q:** Write a Python function that takes a sentence as input and returns the number of words in it?

**CODE:**

def count\_words(sentence):

words = sentence.split()

return len(words)

sentence = input("Enter a sentence: ")

print("The number of words in the sentence is:", count\_words(sentence))

**OUTPUT:**

Enter a sentence: this is an elel

The number of words in the sentence is: 4

=== Code Execution Successful ===

**TASK 03:**

**Q:**  Write a Python function that takes an integer and returns whether the number is even or odd?

**CODE:**

def check\_even\_odd(number):

if number % 2 == 0:

return "Even"

else:

return "Odd"

number = int(input("Enter an integer: "))

print("The number is:", check\_even\_odd(number))

**OUTPUT:**

Enter an integer: 9

The number is: Odd

=== Code Execution Successful ===