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***BIT-23F-042***

***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 ===
```