**School of Computer Science and Artificial Intelligence**

**Lab Assignment # 9.3**

**Program : B. Tech (CSE)**

**Specialization : CSE**

**Course Title : AI ASSISTED CODING**

**Course Code : 24CS101PC214**

**Semester : III**

**Academic Session : 2025-2026**

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**Enrollment No. : 2403A51416**

**Batch No. : 16**

**Date :24/09/2025**

**TASK 1**

**QUESTION :**

Write python function to return sum of even and odd numbers in the given list

**CODE AND OUTPUT:**

**A screenshot of a computer program

AI-generated content may be incorrect.**

1. **EXPLANATION:** The code defines a function sum\_even\_odd that takes a list of numbers.
2. It initializes even\_sum and odd\_sum to zero.
3. It iterates through each number in the input numbers list.
4. Inside the loop, it checks if the number is even using the modulo operator (%).
5. If even, the number is added to even\_sum.
6. If odd, the number is added to odd\_sum.
7. Finally, the function returns both even\_sum and odd\_sum.

**TASK 2:**

Write python program for sru\_student class with attributes like name, roll no.,  
hostel\_status and fee\_update method and display\_details method.  
• Write comments manually for each line/code block

**CODE AND OUTPUT:**

**A screenshot of a computer program

AI-generated content may be incorrect.**

**EXPLANATION:**

1. The code defines a class sru\_student to represent student information.
2. The \_\_init\_\_ method is the constructor, initializing a student with a name, roll number, hostel status, and a fee paid counter starting at zero.
3. The fee\_update method allows adding to the fee\_paid attribute and prints a confirmation message.
4. The display\_details method neatly prints all the student's information.
5. An example student1 object is created with initial details.
6. The display\_details method is called to show the initial state of student1.
7. The fee\_update method is called to add fees, and display\_details is called again to show the updated fee amount.

**TASK 3:**

Write a Python script with 3–4 functions (e.g., calculator: add, subtract, multiply,  
divide).  
• Incorporate manual docstring in code with NumPy Style\

**CODE AND OUPUT:**

A screenshot of a computer program

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**EXPLANATION:**

 This function takes two numbers, a and b, as input and returns their sum using the + operator.

 def subtract(a, b): This function takes two numbers, a and b, and returns the result of subtracting b from a using the - operator.

 def multiply(a, b): This function takes two numbers, a and b, and returns their product using the \* operator.

 def divide(a, b): This function is slightly different. It takes two numbers, a numerator (a) and a denominator (b).

* First, it checks if b is zero (if b == 0:). Since division by zero is impossible in mathematics, the code handles this specific case.
* If b is zero, it raises a ValueError, which is a way of stopping the program and reporting a specific error.
* If b is not zero, it proceeds to return the result of a divided by b using the / operator.