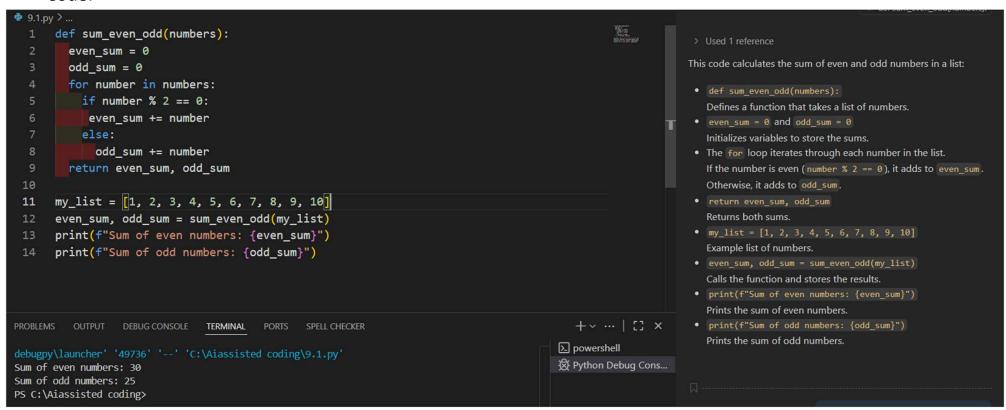
Lab assignment -9

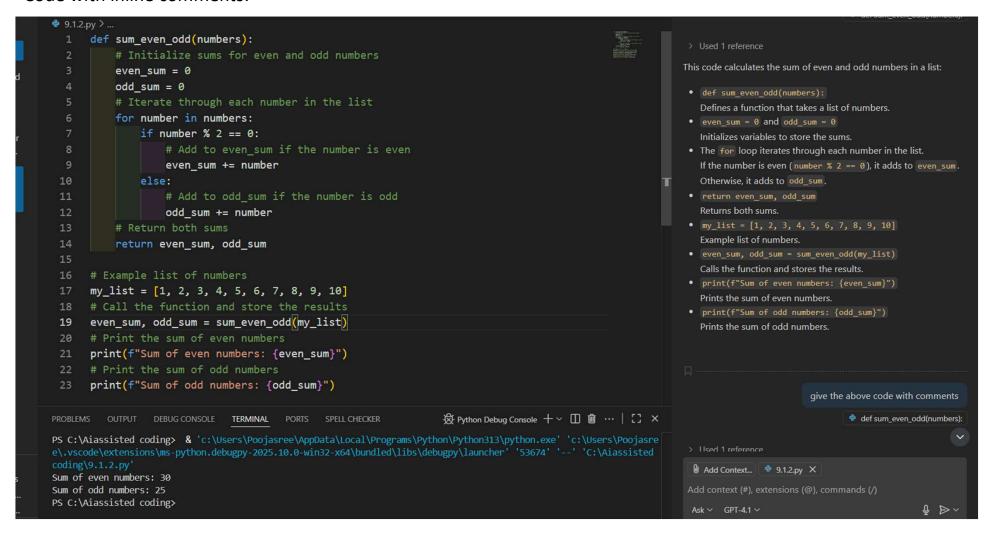
Task-1:

Prompt:Write python function to return sum of even and odd numbers in the given list.).(generate a docstring format)

Code:

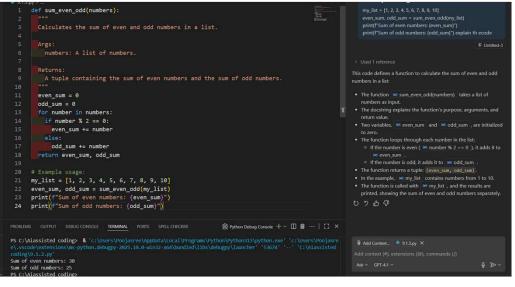


Code with inline comments:



Docstring format:

Using git hub copilot:



Using gemini ai:

Task-2:
Prompt:Write python program for **sru_student** class with attributes like name, roll no., hostel_status and **fee_update** method and **display_details** method.).(generate a docstring format)
Code:

```
class sru student:
          def __init__(self, name, roll_no, hostel_status):
              self.name = name
              self.roll_no = roll_no
              self.hostel_status = hostel_status
              self.fee paid = False
          def fee_update(self, status):
              self.fee_paid = status
          def display details(self):
              print(f"Name: {self.name}")
              print(f"Roll No.: {self.roll_no}")
              print(f"Hostel Status: {self.hostel_status}")
              print(f"Fee Paid: {self.fee_paid}")
      student1 = sru_student("Alice", 101, "Yes")
      student1.fee update(True)
      student1.display_details()
      student2 = sru_student("Bob", 102, "No")
      student2.fee_update(False)
      student2.display_details()
        OUTPUT DEBUG CONSOLE TERMINAL
                                                                                     ☆ Python Debug Console 十~ Ⅲ 値 ··· |
Name: Alice
Roll No.: 101
Hostel Status: Yes
Fee Paid: True
Name: Bob
Roll No.: 102
Hostel Status: No
Fee Paid: False
PS C:\Aiassisted coding>
```

Code with inline comments:

```
class sru student:
          def __init__(self, name, roll_no, hostel_status):
              self.name = name
                                               # Store student's name
              self.roll no = roll no
                                               # Store student's roll number
              self.hostel_status = hostel_status # Store hostel status (Yes/No)
              self.fee_paid = False
                                               # Initialize fee payment status as False
          def fee_update(self, status):
              self.fee_paid = status
                                               # Update fee payment status
          def display_details(self):
 10
              print(f"Name: {self.name}")
                                                   # Print student's name
              print(f"Roll No.: {self.roll_no}") # Print student's roll number
              print(f"Hostel Status: {self.hostel status}") # Print hostel status
              print(f"Fee Paid: {self.fee paid}")
                                                              # Print fee payment status
      student1 = sru student("Alice", 101, "Yes") # Create first student object
      student1.fee_update(True)
                                                    # Update fee status to True (paid)
     student1.display_details()
                                                    # Display details of first student
      student2 = sru_student("Bob", 102, "No")
                                                    # Create second student object
     student2.fee_update(False)
                                                    # Update fee status to False (not paid)
      student2.display details()
                                                    # Display details of second student
                                                                                  PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS SPELL CHECKER
e\.vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bundled\libs\debugpy\launcher' '62105' '--' 'C:\Aiassisted coding\9.2.1.py'
Name: Alice
Roll No.: 101
Hostel Status: Yes
Fee Paid: True
Name: Bob
Roll No.: 102
Hostel Status: No.
Fee Paid: False
PS C:\Aiassisted coding>
```

Docstring format:

Using git hub copilot:

```
class sru_student:
    """ Represents an SRU student with name, roll number, hostel status, and fee payment status.
Attributes:
        name (str): Student's name.
        roll no (int): Student's roll number.
        hostel_status (str): Hostel status (Yes/No).
        fee paid (bool): Fee payment status.
    def __init__(self, name, roll_no, hostel_status):
        Initializes a new sru_student instance.
           name (str): Student's name.
        self.name = name
        self.roll_no = roll_no
        self.hostel status = hostel status
        self.fee paid = False
    def fee_update(self, status):
        Updates the fee payment status.
        self.fee_paid = status
    def display_details(self):
        print(f"Name: {self.name}")
        print(f"Roll No.: {self.roll_no}")
        print(f"Hostel Status: {self.hostel_status}")
        print(f"Fee Paid: {self.fee_paid}")
student1 = sru_student("Alice", 101, "Yes")
student1.fee_update(True)
student1.display_details()
student2 = sru_student("Bob", 102, "No")
student2.fee_update(False)
student2.display_details()
```

Using gemini ai:

```
A class to represent a student at SRU (Shri Ramswaroop Memorial University). This class manages student information including personal details, hostel status,
   and fee payment status. It provides methods to update fee status and display student information.
        name (str): The name of the student roll_no (int): The unique roll number of the student
        hostel status (str): Whether the student stays in hostel ("Yes" or "No") fee_paid (bool): Whether the student has paid their fees (default: False)
         Args:
name (str): The name of the student
roll_no (int): The unique roll number assigned to the student
hostel_status (str): Hostel accommodation status ("Yes" or "No")
         self.name = name
self.roll_no = roll_no
          self.fee_paid = False
           Example:

>>> student = sru_student("Alice", 101, "Yes")
                 >>> student.fee_update(True)
>>> print(student.fee_paid)
           This method prints the student's name, roll number, hostel status, and fee payment status in a formatted manner.
                >>> student = sru_student("Alice", 101, "Yes")
>>> student.fee_update(True)
            print(f"Name: {self.name}")
           print(f"Noll No.: (self.roll_no)")
print(f"Hostel Status: (self.hostel_status)")
print(f"Fee Paid: (self.fee_paid)")
student1 = sru_student("Alice", 101, "Yes")
student1.fee_update(True)
student2 = sru student("Bob", 102, "No")
```

Task-3:

Prompt:Write a Python script with 3–4 functions (e.g., calculator: add, subtract, multiply, divide).(generate a docstring format)

Code:

```
def add(a, b):
          return a + b
      def subtract(a, b):
          return a - b
      def multiply(a, b):
         return a * b
     def divide(a, b):
          if b == 0:
         return a / b
      print(add(10, 5))
      print(subtract(10, 5))
      print(multiply(10, 5))
 18 print(divide(10, 5))
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS SPELL CHECK
PS C:\Aiassisted coding> & 'c:\Users\Poojasree\AppData\Lo
50
PS C:\Aiassisted coding>
```

Code with inline comments:

```
1 def add(a, b):
          return a + b # Return the sum of a and b
      def subtract(a, b):
          return a - b # Return the difference of a and b
      def multiply(a, b):
          return a * b # Return the product of a and b
      def divide(a, b):
          if b == 0:
              return "Error: Division by zero" # Handle division by zero
          return a / b # Return the quotient of a divided by b
     print(add(10, 5))
      print(subtract(10, 5)) # Output: 5
     print(multiply(10, 5)) # Output: 50
     print(divide(10, 5)) # Output: 2.0
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS SPELL CHECKER
PS C:\Aiassisted coding> & 'c:\Users\Poojasree\AppData\Local\Programs\Python\Python33
ns\ms-python.debugpy-2025.10.0-win32-x64\bundled\libs\debugpy\launcher' '61969' '--'
15
50
2.0
PS C:\Aiassisted coding>
```

Docstring format:

Using git hub copilot:

```
def add(a, b):
            b (int or float): Second number.
            int or float: The sum of a and b.
        return a + b
    def subtract(a, b):
        """ Returns the difference of a and b.
            a (int or float): First number.
            b (int or float): Second number.
            int or float: The difference of a and b.
        return a - b
    def multiply(a, b):
        """ Returns the product of a and b.
            b (int or float): Second number.
            int or float: The product of a and b.
        return a * b
    def divide(a, b):
        """ Returns the quotient of a divided by b.
            a (int or float): Numerator.
            b (int or float): Denominator.
            int, float, or str: The quotient if b is not zero, otherwise an error message.
        if b == 0:
           return "Error: Division by zero"
        return a / b #example usage
36 print(add(10, 5))
   print(subtract(10, 5))
   print(multiply(10, 5))
    print(divide(10, 5))
```

Using gemini ai:

```
Add two numbers together.
   This function takes two numeric values and returns their sum.
       b (int or float): The second number to be added
       int or float: The sum of a and b
  Example:
       >>> add(10, 5)
   return a + b
def subtract(a, b):
          Subtract the second number from the first number.
       a (int or float): The number to subtract from (minuend)
       b (int or float): The number to subtract (subtrahend)
       int or float: The difference of a and b (a - b)
     Example:
       >>> subtract(10, 5)
def multiply(a, b):
This function takes two numeric values and returns their product.
      a (int or float): The first number to be multiplied
       b (int or float): The second number to be multiplied
       >>> multiply(10, 5)
       50 Example:
return a * b

43 def divide(a, b):
         This function takes two numeric values and returns their quotient. It handles division by zero by returning an error message.
            a (int or float): The dividend (number to be divided)
b (int or float): The divisor (number to divide by)
             int, float, or str: The quotient of a and b, or error message if b is 0
             'Error: Division by zero'
     print(add(10, 5))
```