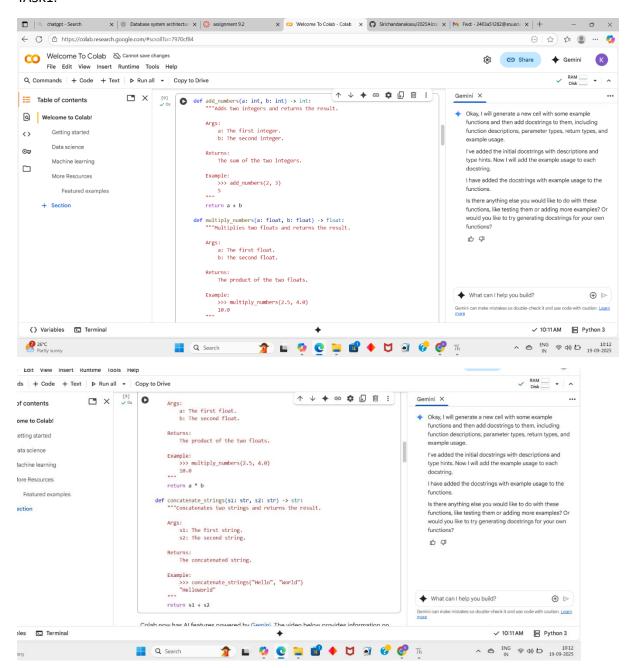
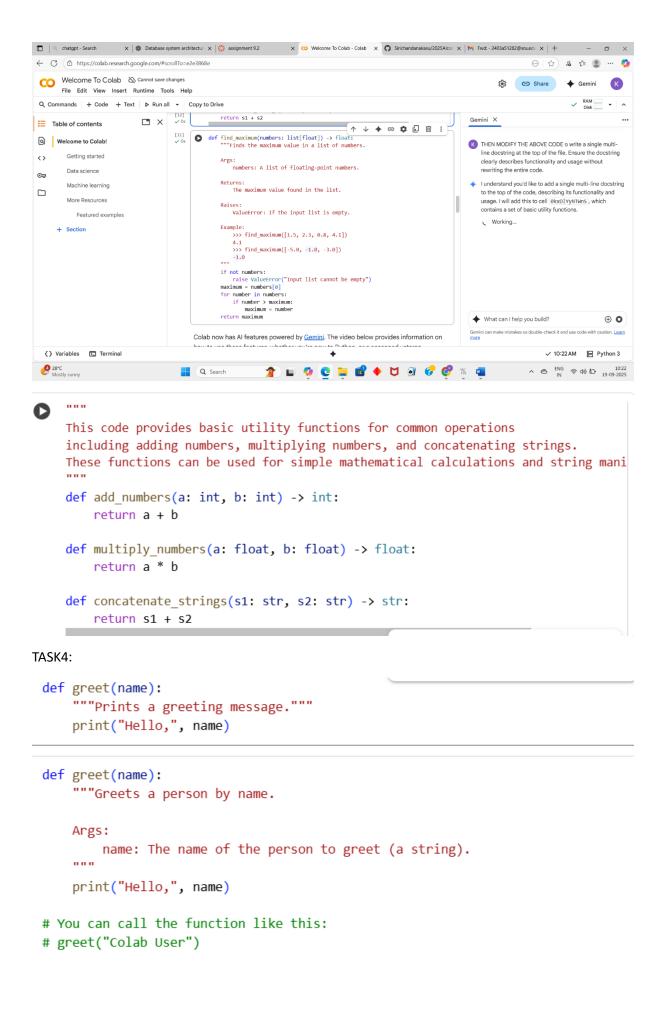
ASSIGNMNET

HTNO: 2403A51282

TASK1:



TASK3:



TASK5:

DOCSTRING FILE

```
sample module.py
A small demo module with outdated or inaccurate docstrings.
def greet_user(name):
    """Greets the user."""
    # Function actually prints a greeting message in uppercase.
    print(f"HELLO, {name}!")
def calculate_area(length, width):
    """Compute the size."""
    # Actually calculates the area of a rectangle and returns it.
    return length * width
def divide(a, b):
    """Divide two numbers."""
    # This function also handles division by zero.
    if b == 0:
        return None
    return a / b
def get even numbers(numbers):
    """Get even numbers."""
    # Returns a list of all even numbers in the given list.
    return [n for n in numbers if n % 2 == 0]
```

```
т ∨ ▼ 🗢 👺 № Ш :
sample_module.py
A small demo module with outdated or inaccurate docstrings.
def greet_user(name):
     ""Greets the user in uppercase.
   name: The name of the user (str).
   # Function actually prints a greeting message in uppercase.
   print(f"HELLO, {name}!")
def calculate_area(length, width):
    """Calculates the area of a rectangle.
       length: The length of the rectangle (float or int).
       width: The width of the rectangle (float or int).
    Returns:
   The area of the rectangle (float or int).
   # Actually calculates the area of a rectangle and returns it.
   return length * width
                                                         e 🗱 🖟 e
def divide(a, b):
    """Divides two numbers.
       a: The numerator (float or int).
       b: The denominator (float or int).
   Returns:
      The result of the division (float), or None if the denominator is zero.
    # This function also handles division by zero.
   if b == 0:
       return None
    return a / b
def get_even_numbers(numbers):
    """Filters a list to return only even numbers.
   Args:
       numbers: A list of numbers (list[int]).
    Returns:
    A new list containing only the even numbers from the input list (list[in
    # Returns a list of all even numbers in the given list.
   return [n for n in numbers if n % 2 == 0]
```

```
def power(base, exponent=2):
    """Raises a base number to a given exponent.

Args:
    base: The base number (float or int).
    exponent: The exponent (float or int), defaults to 2.

Returns:
    The result of the exponentiation (float or int).
    """

# Default exponent is 2, so it also works as a square() helper.
    return base ** exponent
```