

Assignment-9.4

P.Ayushman

2303a52294

Task-1:

Colab generated file without docstring:

```
def add(a,b):  
    return a+b  
def mutiply(a,b):  
    return a*b  
def division(a,b):  
    return a//b  
def greets(name,greeting):  
    return name,greeting  
a=int(input('enter the first number'))  
b=int(input('enter the second number'))  
print(add(a,b))  
print(mutiply(a,b))  
print(division(a,b))  
name=input('enter your name: ')  
greeting=input('enter your greeting: ')  
print(greets(name,greeting))  
  
... enter the first number67  
enter the second number69  
136  
4623  
0  
enter your name: ayushman  
enter your greeting: hell0  
( 'ayushman', 'hell0')
```

With Docstring:

```

def add(a,b):
    """Adds two numbers.

    Args:
        a: The first number.
        b: The second number.

    Returns:
        The sum of a and b.
    """
    return a+b
def mutilply(a,b):
    """Multiplies two numbers.

    Args:
        a: The first number.
        b: The second number.

    Returns:
        The product of a and b.
    """
    return a*b
def division(a,b):
    """Divides two numbers (integer division).

    Args:
        a: The dividend.
        b: The divisor.

    Returns:
        The integer quotient of a divided by b.
    """
    return a//b
def greets(name,gretting):
    """Generates a greeting with a name.

    Args:
        name: The name to greet.
        gretting: The greeting message.

    Returns:
        A tuple containing the name and the greeting.
    """
    return name,gretting
a=int(input('enter the first number'))
b=int(input('enter the second number'))
print(add(a,b))
print(mutilply(a,b))
print(division(a,b))
name=input('enter your name: ')
gretting=input('enter your gretting: ')
print(greets(name,gretting))

```

Task -2:

Colab generated code without inline comments:

```
def fibonacci(n):  
    if n <= 0:  
        return 0  
    elif n == 1:  
        return 1  
    else:  
        a, b = 0, 1  
        for i in range(2, n + 1):  
            a, b = b, a + b  
        return b
```

Colab generated inline comments:

```
def fibonacci(n):  
    if n <= 0:  
        return 0  
    elif n == 1:  
        return 1  
    else:  
        a, b = 0, 1 # Initialize first two Fibonacci numbers  
        for i in range(2, n + 1):  
            # Update a and b to next in sequence (efficient space usage)  
            a, b = b, a + b  
        return b
```

Task-3:

Colab generated module-Level Documentation for above code:

```

"""This is an example module demonstrating basic arithmetic operations and greetings.

This module contains functions for adding, multiplying, and dividing two numbers,
as well as a function to generate a greeting message.

Functions:
    add(a, b): Adds two numbers.
    multiply(a, b): Multiplies two numbers.
    division(a, b): Divides two numbers (integer division).
    greets(name, greeting): Generates a greeting with a name.

Usage example:
    import example_module
    result_add = example_module.add(5, 3)
    print(result_add) # Output: 8
"""

def add(a,b):
    """Adds two numbers.

    Args:
        a: The first number.
        b: The second number.

    Returns:
        The sum of a and b.
    """
    return a+b

def multiply(a,b):
    """Multiplies two numbers.

    Args:
        a: The first number.
        b: The second number.

    Returns:
        The product of a and b.
    """
    return a*b

def division(a,b):
    """Divides two numbers (integer division).

    Args:
        a: The dividend.
        b: The divisor.

    Returns:
        The integer quotient of a divided by b.
    """
    return a//b

def greets(name,greeting):
    """Generates a greeting with a name.

    Args:
        name: The name to greet.
        greeting: The greeting message.

    Returns:
        A tuple containing the name and the greeting.
    """
    return name,greeting

```

Task -4:

Colab Generated Inline comments

```

def sub(a,b):
+ # Defines a function to subtract two numbers
    return a-b
+ # Calls the 'sub' function with (6 - 9) and stores the result
result=sub(6-9)
+ # Prints the result of the subtraction
print(result)

```

add inline comments to sub function

My apologies for the repeated issue. I will now add inline comments to the `sub` function definition and its usage in cell `3h8Nc_cqAsRX`.

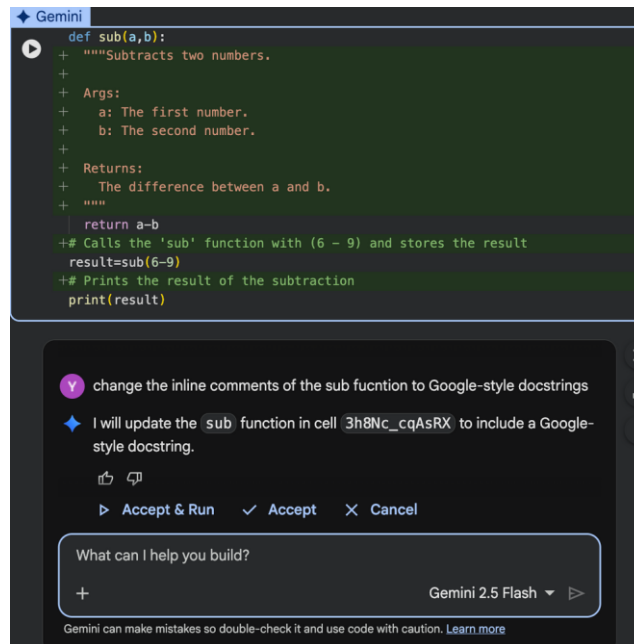
▶ Accept & Run
✓ Accept
✕ Cancel

What can I help you build?

+
Gemini 2.5 Flash
▶

Gemini can make mistakes so double-check it and use code with caution. [Learn more](#)

Colab converted inline to docstrings:

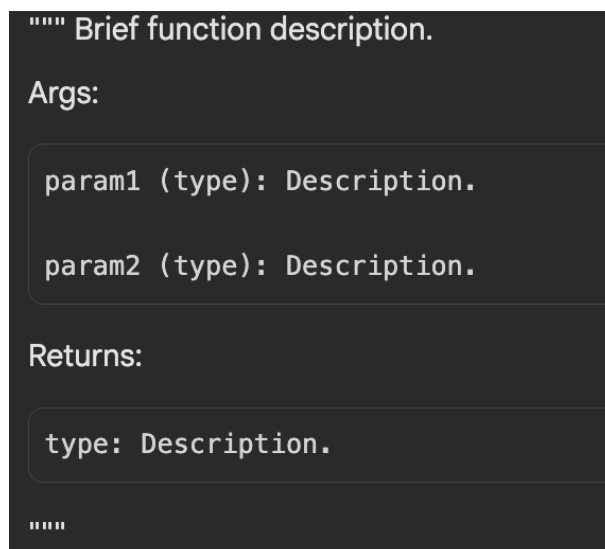


Task-5:

Code for Mini Automatic Documentation Generator:



For Functions:



For Classes:

```
"""
```

Brief class description.

Attributes:

```
    attr1 (type): Description.
```

```
"""
```