**AI ASSISSTED CODING-10:**

**TASK-1:**

Identify and fix syntax, indentation, and variable errors in the given script.

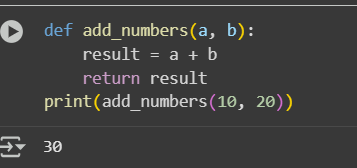
# buggy\_code\_task1.py

def add\_numbers(a, b)

result = a + b

return reslt

print(add\_numbers(10 20))



**ERROR:**

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**EXPLANATION:**

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**TASK-2:**

: Optimize inefficient logic while keeping the result correct.

# buggy\_code\_task2.py

def find\_duplicates(nums):

duplicates = []

for i in range(len(nums)):

for j in range(len(nums)):

if i != j and nums[i] == nums[j] and nums[i] not in duplicates:

duplicates.append(nums[i])

return duplicates

numbers = [1,2,3,2,4,5,1,6,1,2]

print(find\_duplicates(numbers))

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**EXPLANATION:**

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**TASK-3:**

Refactor messy code into clean, PEP 8–compliant, well-structured code.

# buggy\_code\_task3.py

def c(n):

x=1

for i in range(1,n+1):

x=x\*i

return x

print(c(5))

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**EXPLANATION:**

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**TASK-4:**

: Add security practices and exception handling to the code.

# buggy\_code\_task4.py

import sqlite3

def get\_user\_data(user\_id):

conn = sqlite3.connect("users.db")

cursor = conn.cursor()

query = f"SELECT \* FROM users WHERE id = {user\_id};" # Potential SQL injection risk

cursor.execute(query)

result = cursor.fetchall()

conn.close()

return result

user\_input = input("Enter user ID: ")

print(get\_user\_data(user\_input))

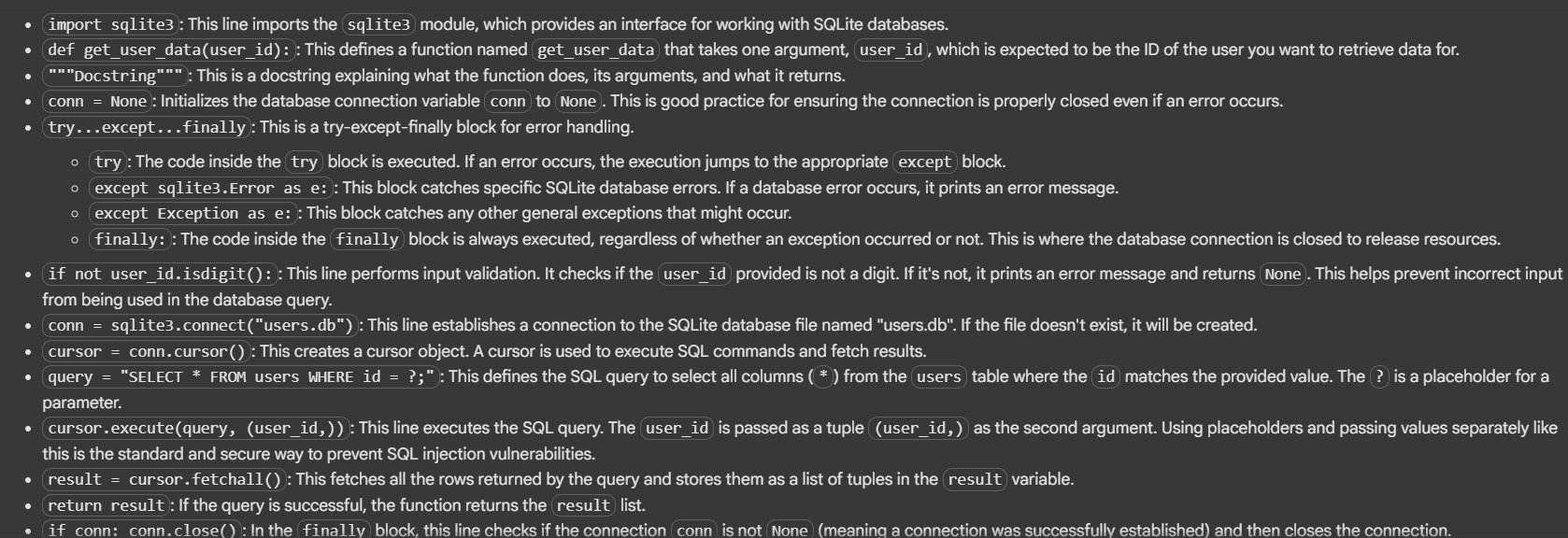
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**EXPLANATION:**

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**TASK-5:**

Generate a review report for this messy code.

# buggy\_code\_task5.py

def calc(x,y,z):

if z=="add":

return x+y

elif z=="sub": return x-y

elif z=="mul":

return x\*y

elif z=="div":

return x/y

else: print("wrong")

print(calc(10,5,"add"))

print(calc(10,0,"div"))

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**EXPLANATION:**

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