# AI ASSISTED CODING

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**BATCH – 03** **06 – 02 – 2026**

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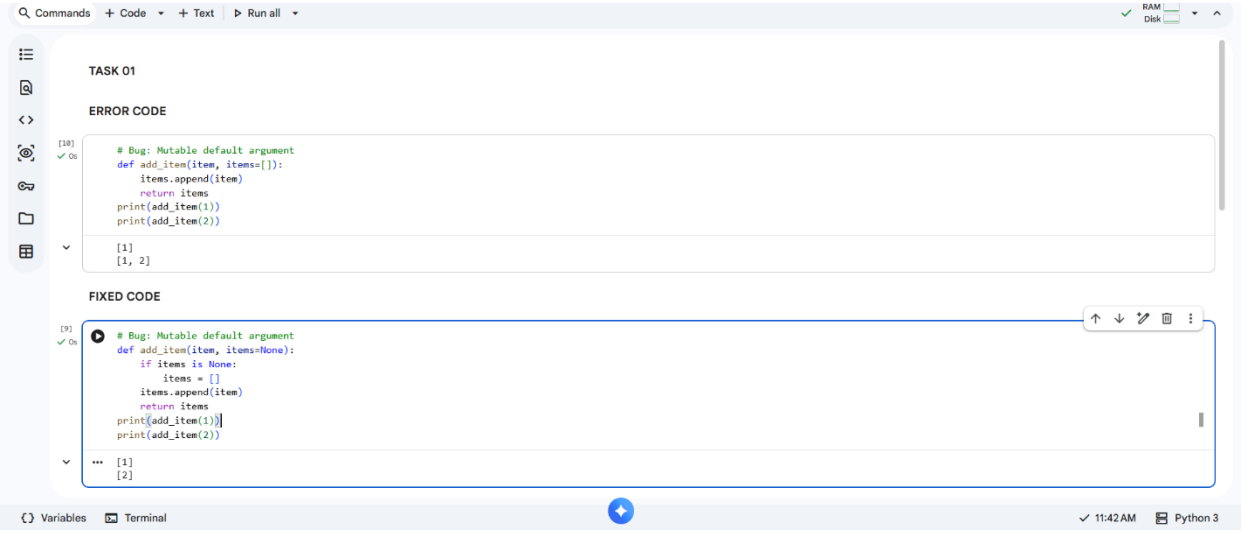
## ASSIGNMENT – 7.5

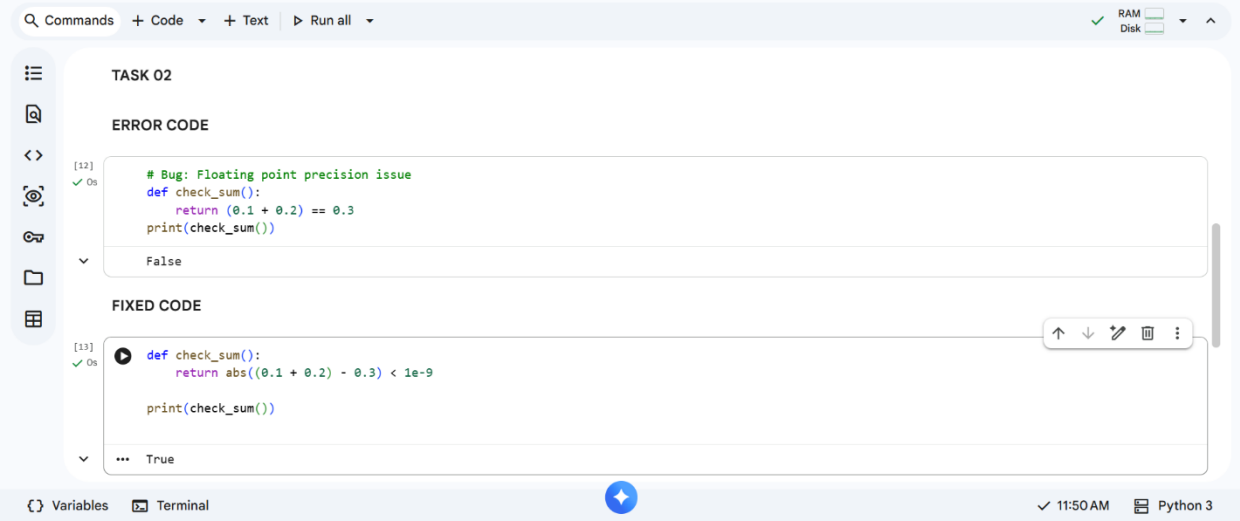
**Lab – 07 :** Error Debugging with AI : Systematic Approaches to finding and fixing bugs.

**Task – 01 :** Mutable Default Argument – Function Bug.



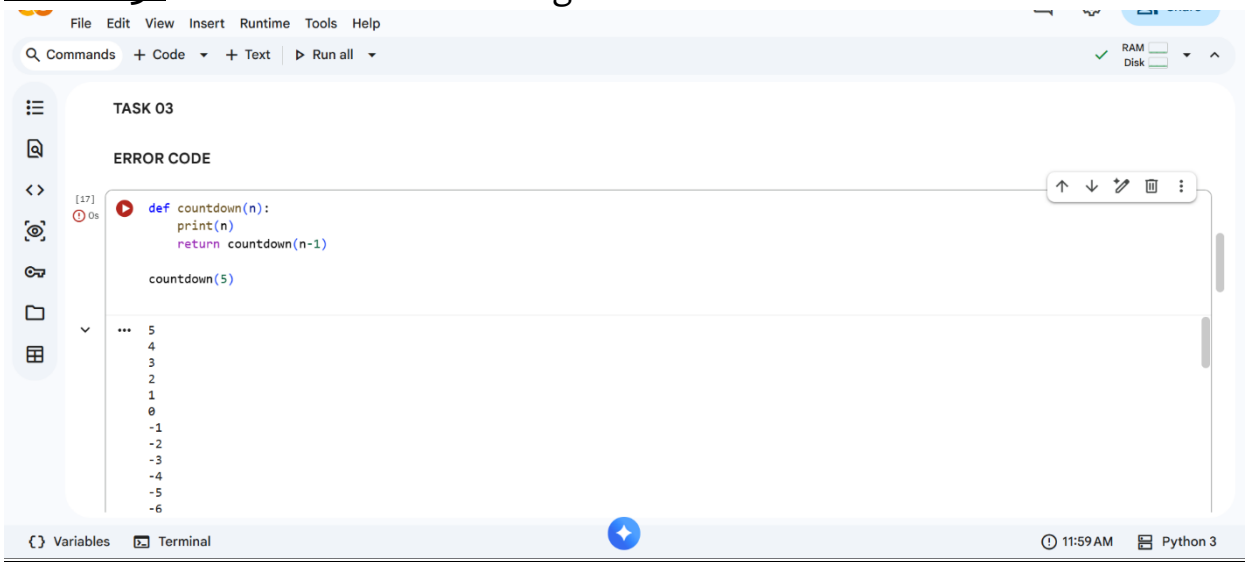

**Explanation :** The above error occurs because the above list items are created only once and it is Reused.

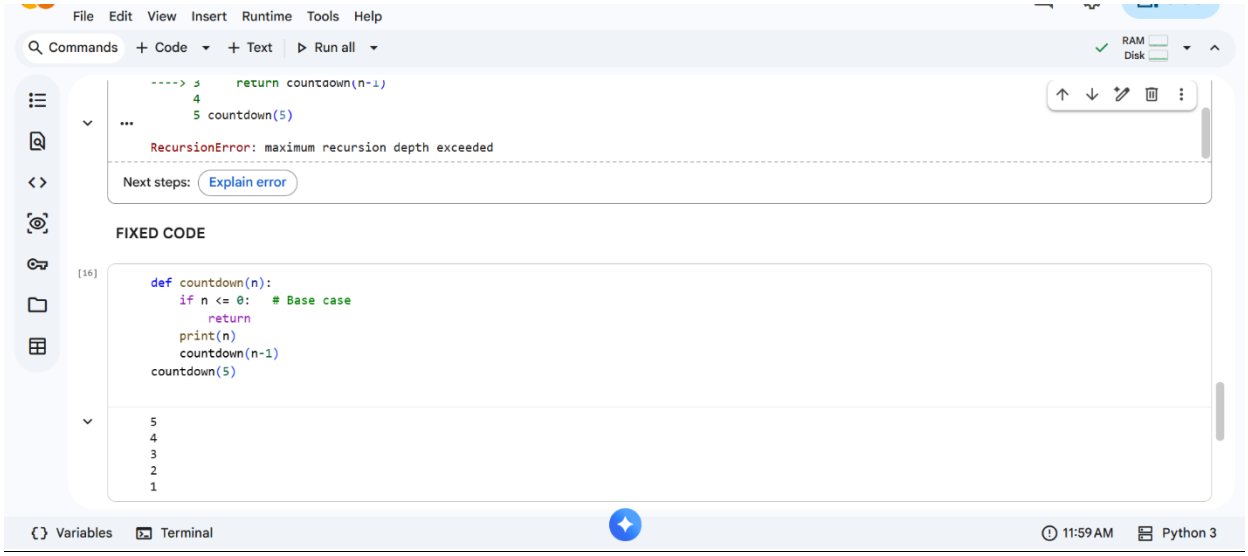
**Task – 02 :** Floating – Point Precision Error.




**Explanation :** The above error occurs because Float – Point Numbers cannot be Compared Directly. So, it is Fixed Using Tolerance.

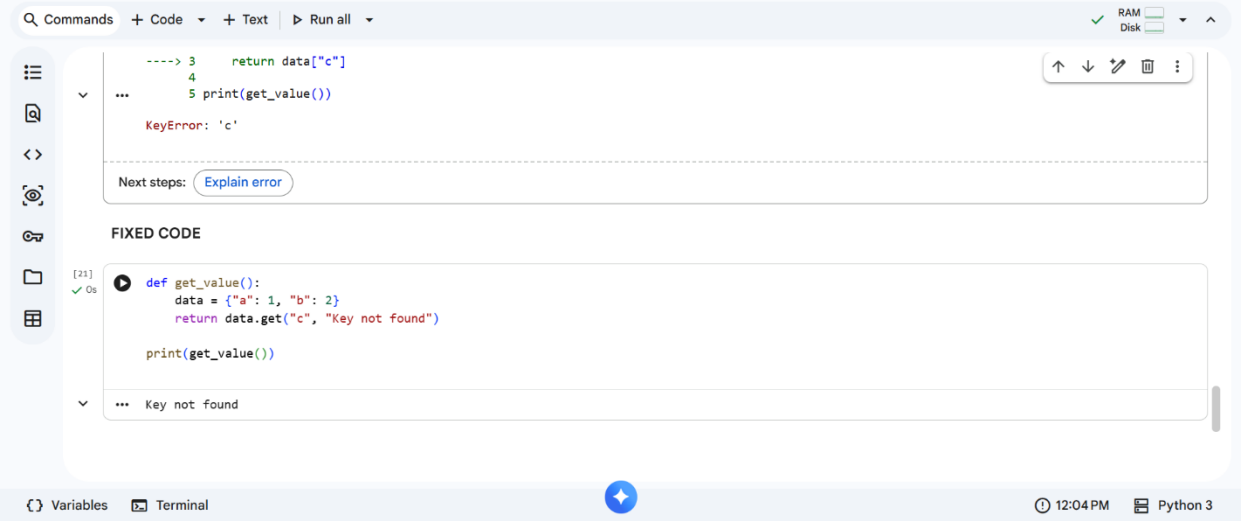
**Task – 03 :** Recursion Error – Missing base Case.





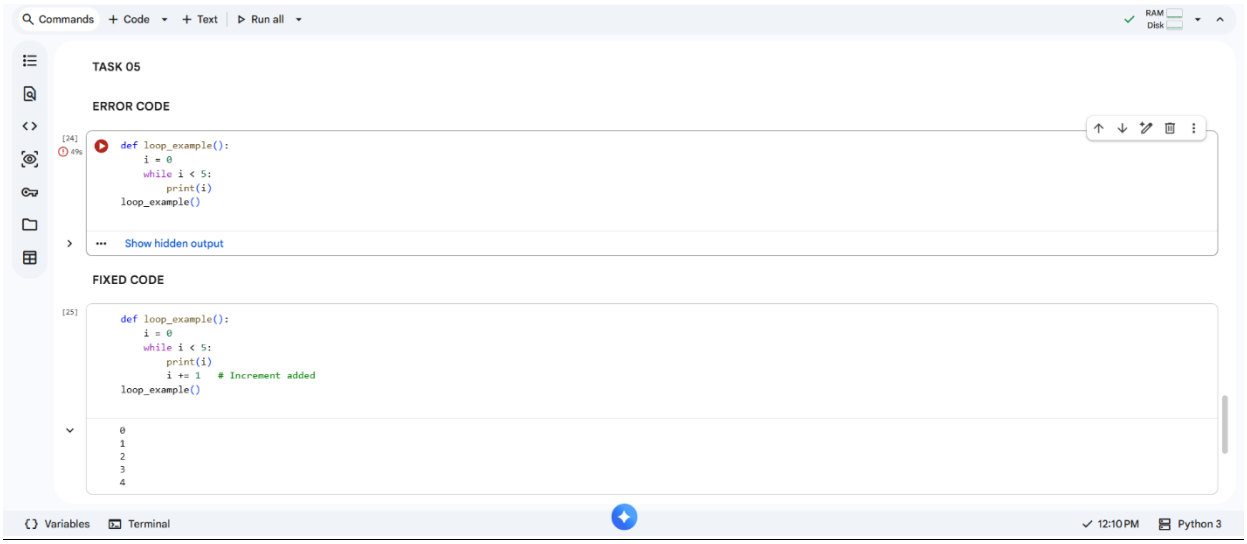

**Explanation :** The above error occurs because in the error code there is no stopping condition it has infinite loop. So, fixed it using loop condition.

**Task – 04 :** Dictionary key Errors.



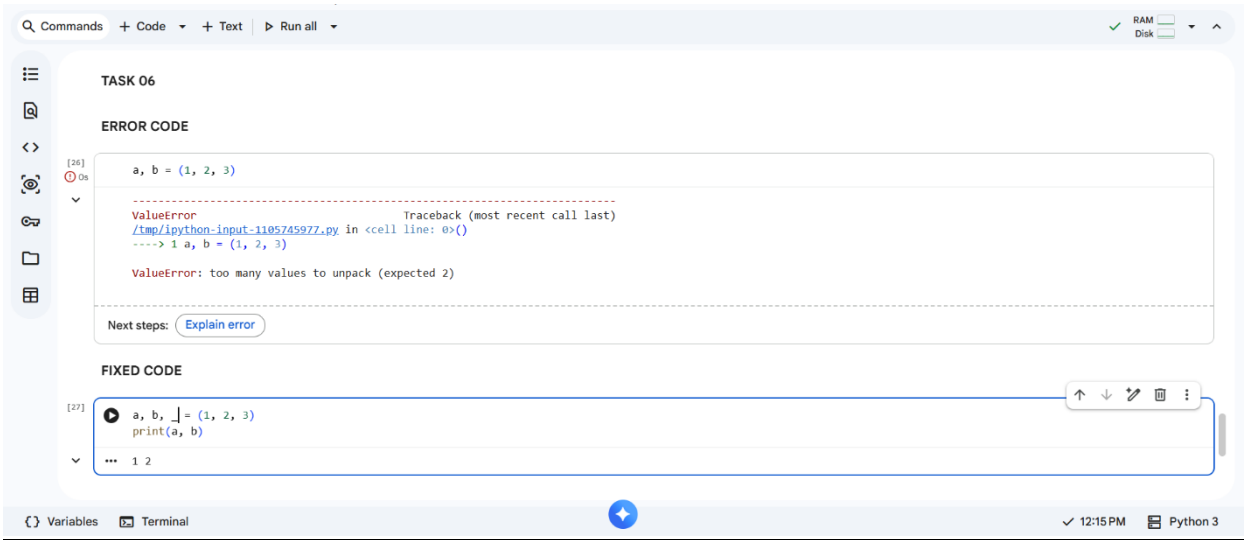

**Explanation:** The above Error occurs in the above code is key Error because it has accessing the key which is not existed. So, Fixed it using returning None value or Key Not Found Method.

**Task – 05:** Infinite Loop – Wrong Condition.



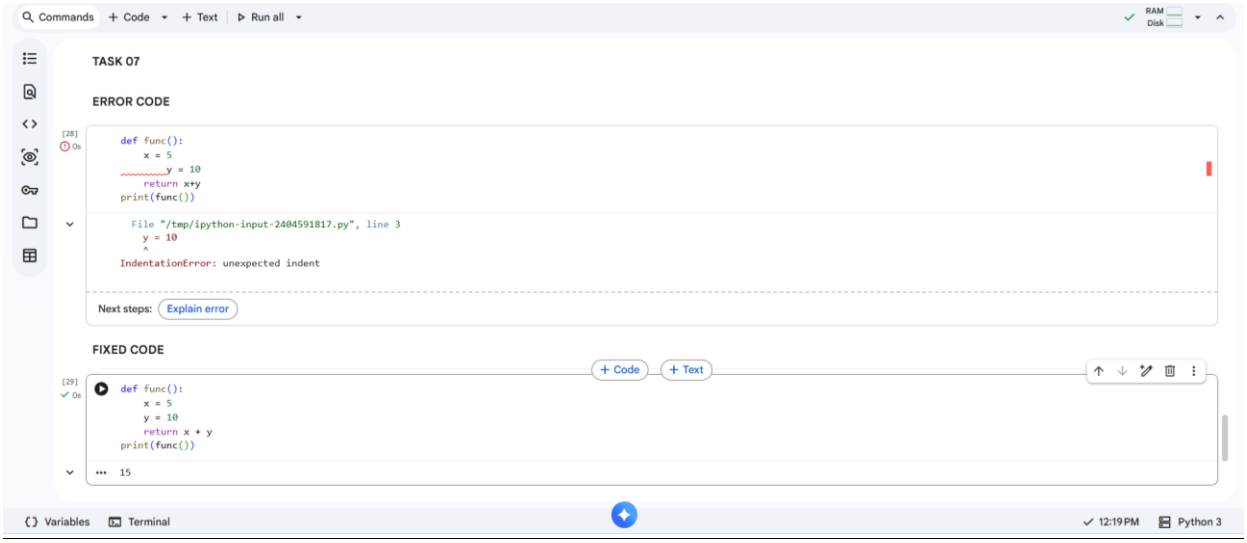

**Explanation:** The above Error occurs in the above code because in the above loop the "I" is never incremented in the loop variable. So, the code is fixed by incrementing the "I" in the loop.

**Task – 06:** Unpacking Error – Wrong variables.



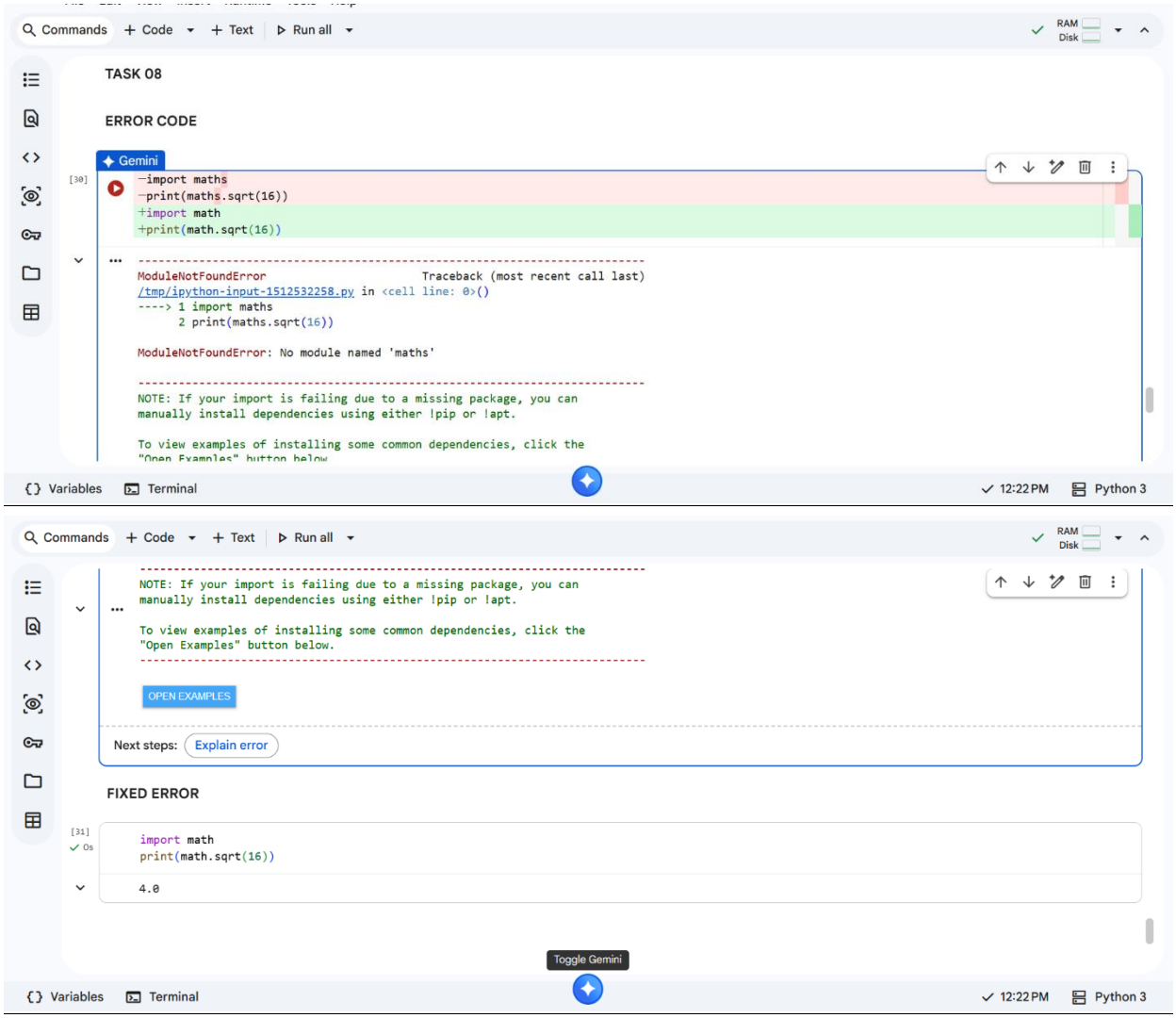

**Explanation:** The above Error occurs in the above code because it has too many values to unpack. So, fixed the above code using packing method.

**Task – 07:** Mixed Indentation – Tabs vs Spaces.




**Explanation:** The above error occurs in the above code because, python does not allows the mixing tabs and spaces. So, it is fixed by consisting only 4 spaces systematically.

**Task – 08:** Import Error – Wrong Module Usage.




**Explanation:** The above error occurs in the above code because the module name is Incorrect. So, fixed it by renaming the module name correctly.