# ASSIGNMENT 10.2

**Task 1: AI-Assisted Code Review (Basic Errors)**

* Write python program as shown below.
* Use an AI assistant to review and suggest corrections.

Given Code:

* A screenshot of a computer program

  Description automatically generated

Modified Code:

A screenshot of a computer program

Description automatically generated

OBSERVATION: The code calculates factorial but misses multiplying by n, so the result is wrong.  
It still runs, prints the factorial, and shows "BIG Number" since the result > 10.

**Task 2: Automatic Inline Comments**

* Write the Python code for Fibonacci as shown below and execute.
* Ask AI to improve variable names, add comments, and apply PEP8 formatting (cleaned up).
* Students evaluate which suggestions improve readability most. one.

Given Code:

A screen shot of a computer program

Description automatically generated

Modified Code:

A screenshot of a computer program

Description automatically generated

OBSERVATION: In this code we can observe that the code is corrected and modify the code in better way and also gave comments for easy understanding

**Task 3:** • Write a Python script with 3–4 functions (e.g., calculator: add, subtract, multiply,  
divide).  
• Incorporate manual docstring in code with NumPy Style  
• Use AI assistance to generate a module-level docstring + individual function  
docstrings.  
• Compare the AI-generated docstring with your manually written one

Student Code:

A screenshot of a computer program

Description automatically generated

A screen shot of a computer program

Description automatically generatedAI Code:

Output:

A screenshot of a computer program

Description automatically generated

**OBSERVATION**: In this question I have made a code with comments and I gave my code to AI to modify the code so it modified my code by using the functions . it made code simple.