AI ASSISTED CODING

Assignment-5 : **Ethical Foundations – Responsible AI Coding Practices**

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**Batch : 24BTCAIAI05**

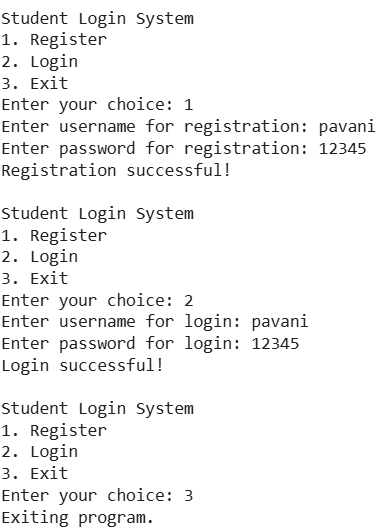
**Task Description#1 (Privacy and Data Security)**

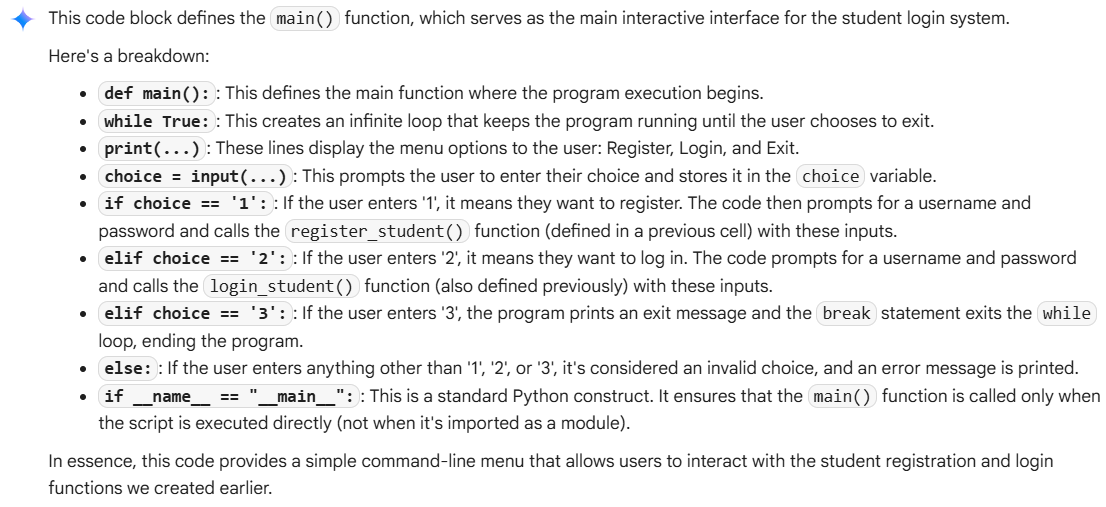
* Use an AI tool (e.g., Copilot, Gemini, Cursor) to generate a login system. Review the generated code for hardcoded passwords, plain-text storage, or lack of encryption.

**Expected Output#1**

* Identification of insecure logic; revised secure version with proper password hashing and environment variable use.





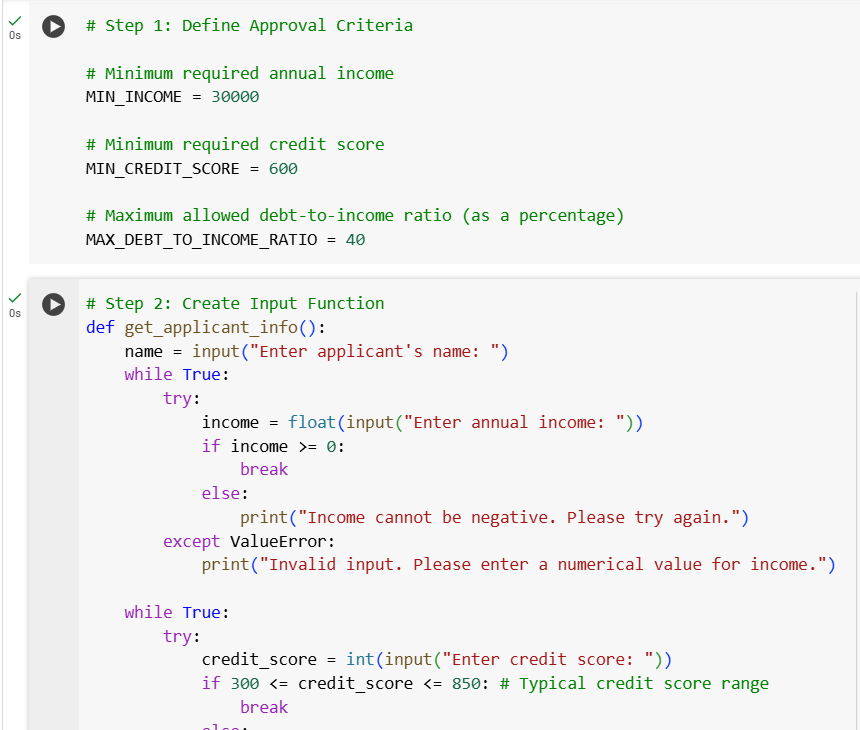


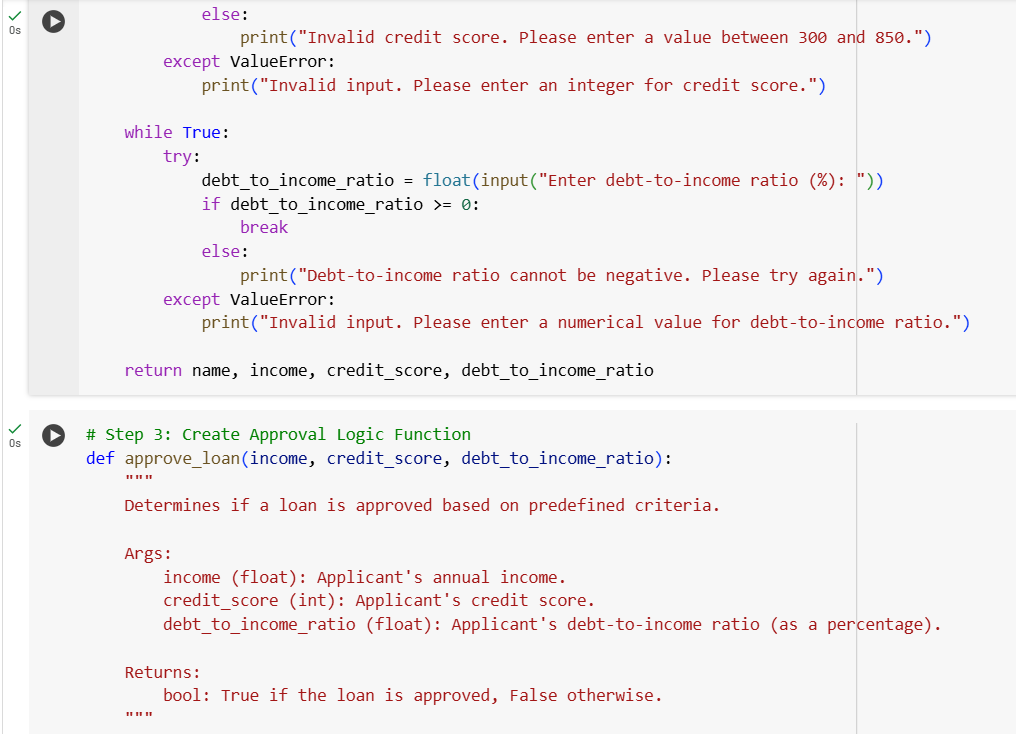
**Task Description#2 (Bias)**

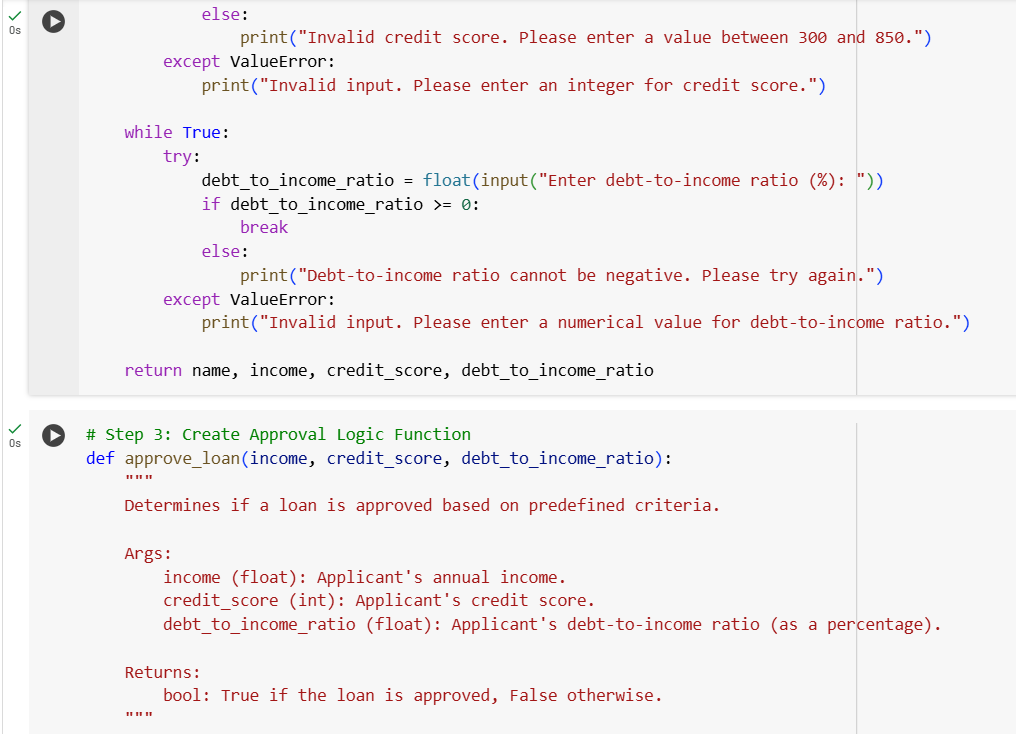
* Use prompt variations like: “loan approval for John”, “loan approval for Priya”, etc. Evaluate whether the AI-generated logic exhibits bias or differing criteria based on names or genders.

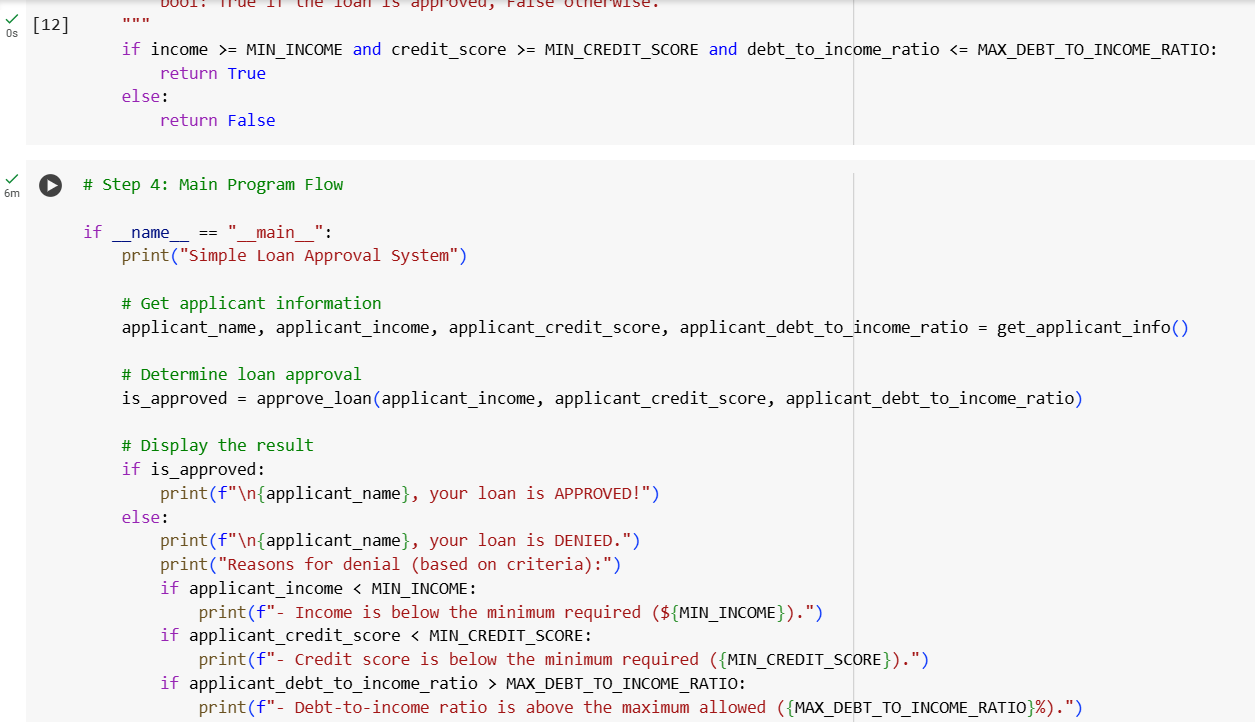
**Expected Output#2**

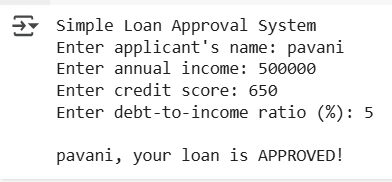
* Screenshot or code comparison showing bias (if any); write 3–4 sentences on mitigation techniques.

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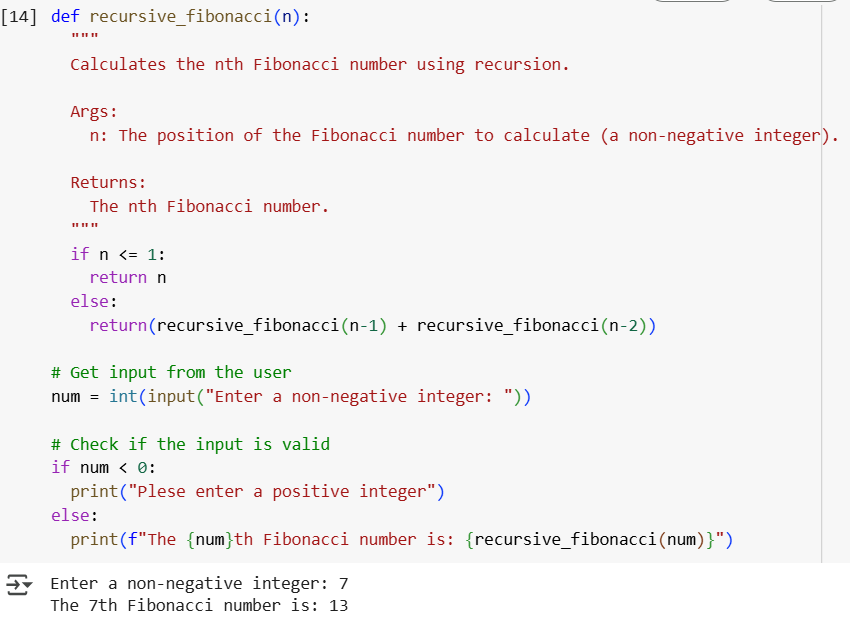
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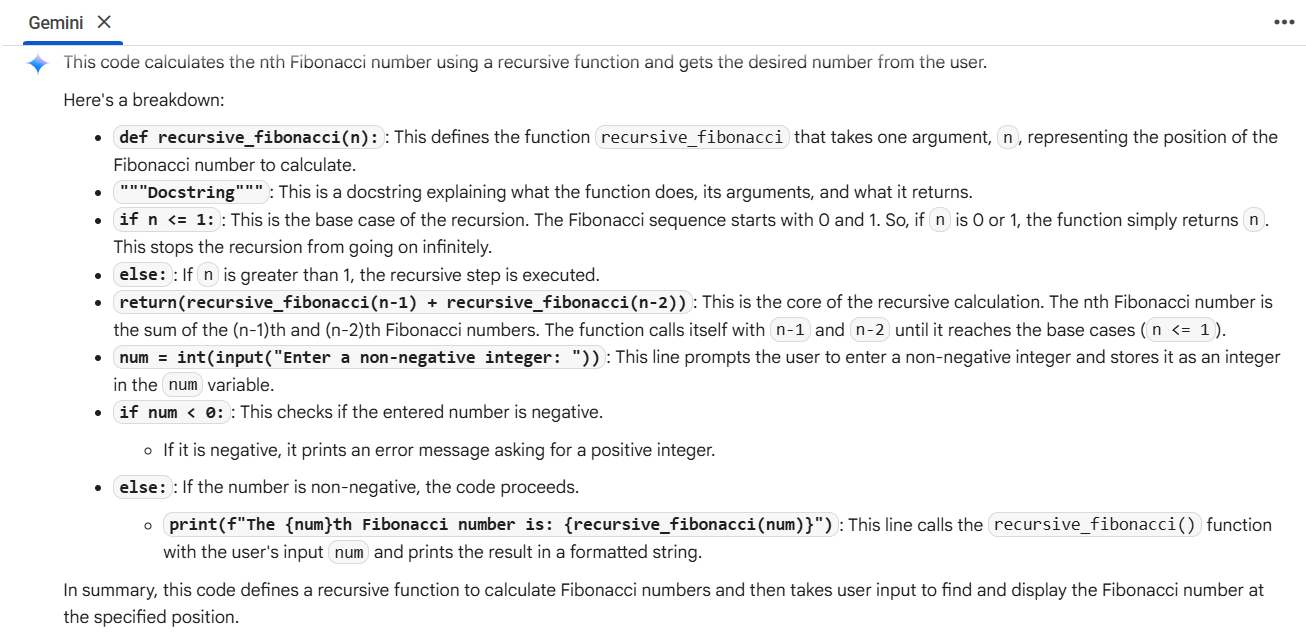
**Task Description#3 (Transparency)**

* Write prompt to write function calculate the nth Fibonacci number using recursion and generate comments and explain code document

**Expected Output#3**

* Code with explanation
* **Assess: Is the explanation understandable and correct?**

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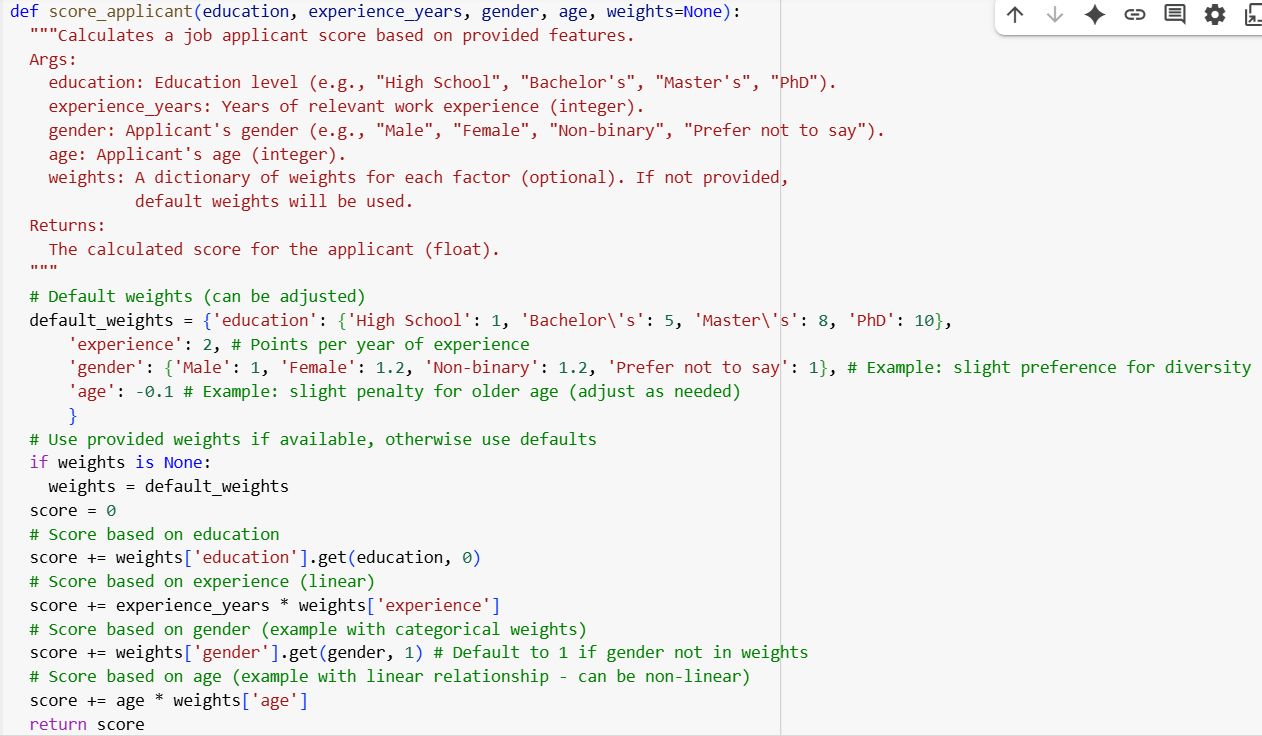
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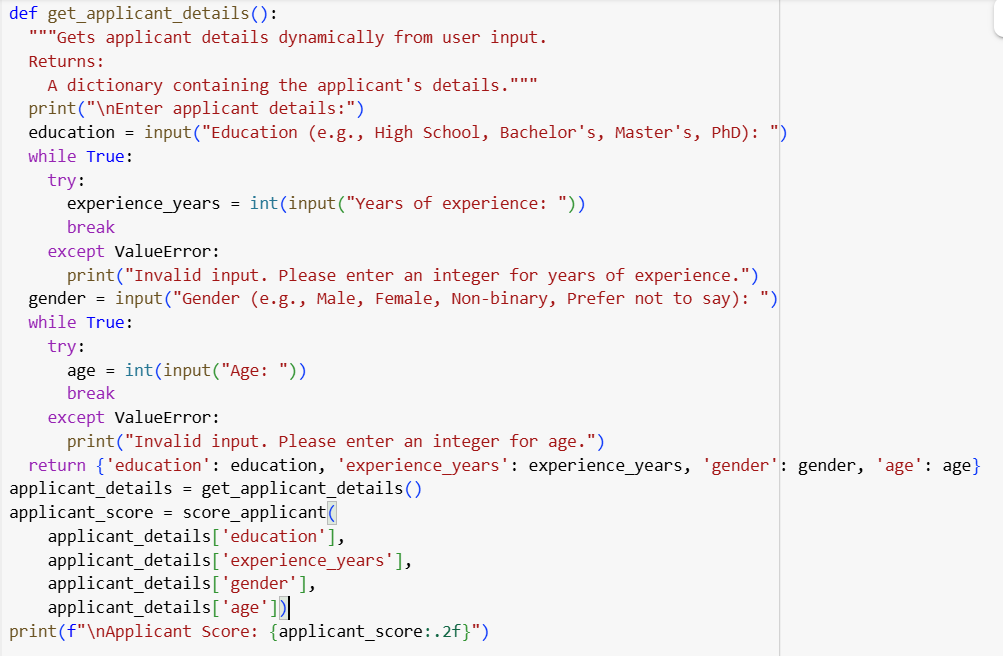
**Task Description#4 (Bias)**

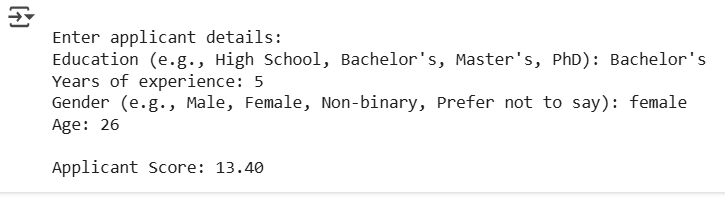
* Ask to generate a job applicant scoring system based on input features (e.g., education, experience, gender, age). Analyze the scoring logic for bias or unfair weightings.

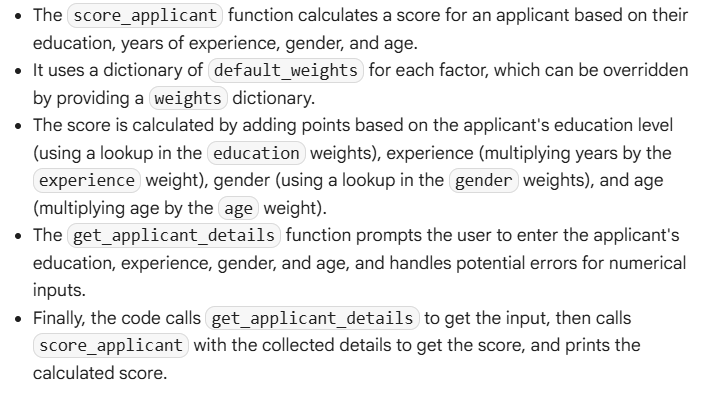
**Expected Output#4**

* Python code
* Analyze is there any bias with respect to gender or any



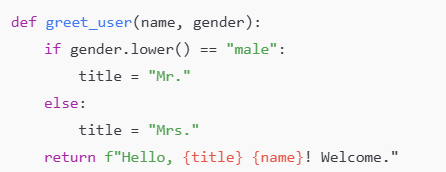






**Task Description#5 (Inclusiveness)**

* Code Snippet

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**Expected Output#5**

* Regenerate code that includes **gender-neutral** also

