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CSC-570
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For this assignment, I naturally stuck with my domain of **finance**. My program is one that, considering the credit score and income if necessary, determines whether an individual is qualified for a loan or not. I've opted to stick with a **semi-autonomous design**, similar to the one presented in class, and I traded a **slight reduction of autonomy** for **more precision** when handling an edge case I created for **deeper consideration** of customer loan qualification.

A few things I've expanded on in class to improve my proficiency:

- **Expanded the use of the random function.**
    - I wanted my customers to feel real, and as such, I implemented the creation of random full names utilizing the already imported random module and **get_random_name** function within it.
    - I've also refactored the generation of a random temperature to generate a random credit score between the scores of **500 and 850**.
- **Furthered the use of the database and table creation**
    - I've **modified the database table creation** so that it now has room for the customers' names to be associated with their credit scores.
    - The database is stored under a different name: '**LAagentDB**', and has room for both the name and score in each row.
    - When matriculating through the database, each row is **unpacked into variables** that are passed to perception_decision **rather than by rows**. This creates easier **readability** and **codeability** for **future enhancements**. *Additions could include employment status and current debt to income ratio. This may also make it easier to log input provided by the user on the customer for future use and consideration*
- **Increased ability to request more information when needed**
    - In an effort to **reduce the chances of ethical biases** based on credit score(*this score was implemented to keep minorities from climbing the social ladder*) **income is also considered** for customers with adequate, but not perfect scores.This way there's **no reliance on a single metric that has unethical foundations**.
    - The user will be required to enter the customer's income, where **edge case handling** validates that input before its use.
    - The agent also **adds a delay** to this section to **simulate high-level processing** and **give the user time to understand** what's happening and provide the illusion of "**thinking**" to **make the user more comfortable** using the program.