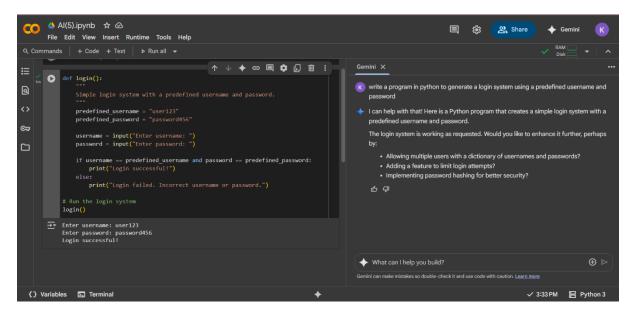
Assignment-5.2

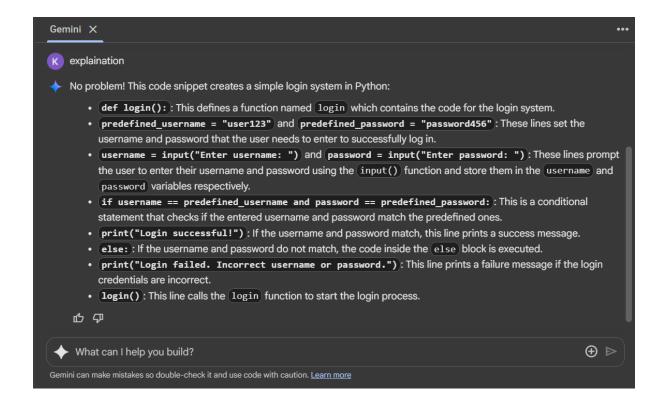
Name: N. Bhanuchander

Roll No: 2403A52118

Task 1:

write a program in python to generate a login system using a predefined username and password code:

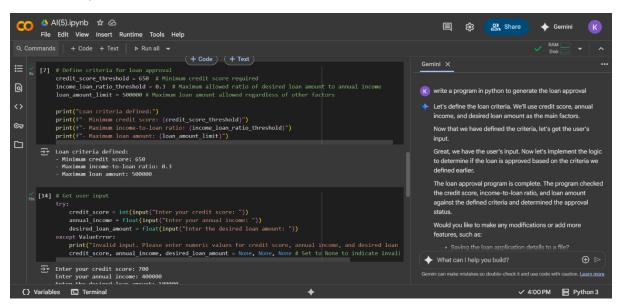




Task 2:

write a program in python to generate the loan approval

code and output:



```
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 CO
        File Edit View Insert Runtime Tools Help
 ∷ | 19s | 14] # Get user input
                credit_score = int(input("Enter your credit score: "))
Q
                 annual_income = float(input("Enter your annual income: "))
desired_loan_amount = float(input("Enter the desired loan amount: "))
             except ValueError:
                 print("Invalid input. Please enter numeric values for credit score, annual income, and desired loan
credit_score, annual_income, desired_loan_amount = None, None, None # Set to None to indicate invali
⊙ಾ
        ₹ Enter your credit score: 700
\Box
             Enter your annual income: 400000
Enter the desired loan amount: 100000
                                                                                    ↑ ↓ ♦ © 🗏 💠 🖫 🔟 🚼
        # Implement approval logic is_approved = False
             if credit_score is not None and annual_income is not None and desired_loan_amount is not None:
                 if credit_score >= credit_score_threshold:
                     if desired_loan_amount <= loan_amount_limit:</pre>
                              is_approved = True
                              print(f"Loan denied: Desired loan amount exceeds the maximum limit of {loan_amount_limit
        📤 Al(5).ipynb  🛠 🙆
        File Edit View Insert Runtime Tools Help
                                                                                   ↑ ↓ ♦ 🖘 🗏 🔟 🗜
# Implement approval logic
             is approved = False
Q
             if credit_score is not None and annual_income is not None and desired_loan_amount is not None:
☞
                     if desired_loan_amount <= (annual_income * income_loan_ratio_threshold):
    # Check loan amount limit</pre>
                          if desired loan amount <= loan_amount_limit:
is_approved = True
\Gamma
                             print(f"Loan denied: Desired loan amount exceeds the maximum limit of {loan_amount_limit
                         print(f"Loan denied: Income-to-loan ratio is too high. Your desired loan amount should be no
                 print("Loan approval cannot be determined due to invalid input.")
             if is_approved:
    print("Loan approved!")

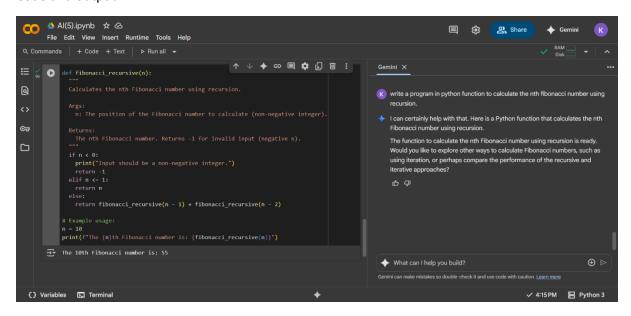
    → Loan approved!
```

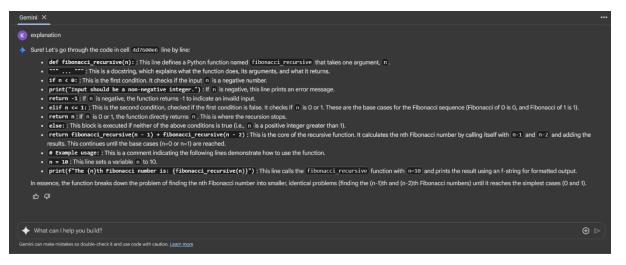


Task 3:

write a program in python function to calculate the nth fibonacci number using recursion.

Code and output:

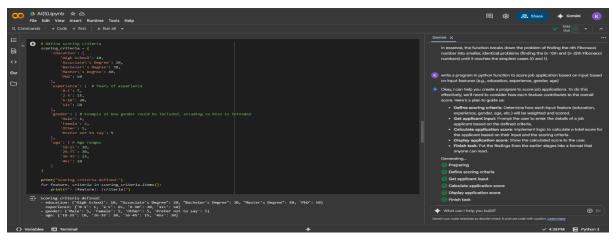


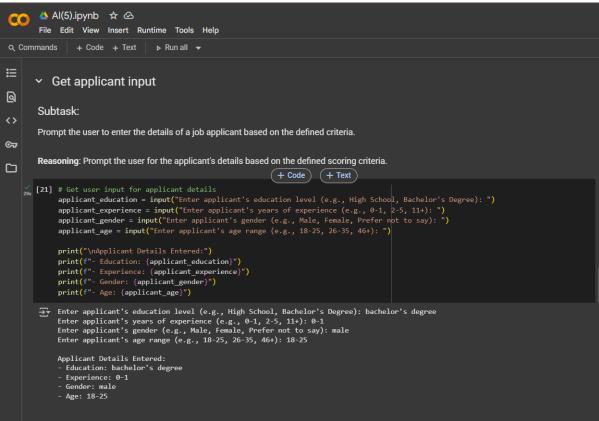


Task 4:

write a program in python function to score job application based on input based on input features(e.g., education, experience, gender, age)

code and output:



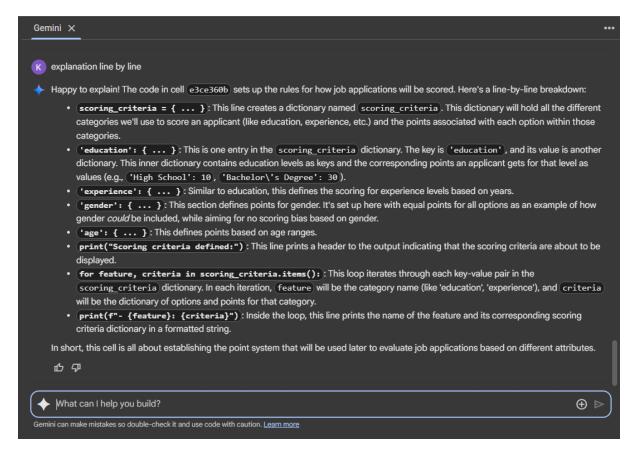


```
File Edit View Insert Runtime Tools Help
[22] # Implement logic to calculate total score total_score = θ
Q
              try:
    total_score += scoring_criteria['education'][applicant_education]
              except KeyError:

print(f"Warning: Invalid education level '{applicant_education}' not found in scoring criteria.")
೦ಸ
try:
total_score += scoring_criteria['experience'][applicant_experience]
              except Keptror:
print(f"Warning: Invalid experience level '{applicant_experience}' not found in scoring criteria.")
              try:
   total_score += scoring_criteria['gender'][applicant_gender]
              except KeyError:
    print(f"Warning: Invalid gender '{applicant_gender}' not found in scoring criteria.")
                   total_score += scoring_criteria['age'][applicant_age]
              except KeyError:
    print(f"Warning: Invalid age range '{applicant_age}' not found in scoring criteria.")
         Warning: Invalid education level 'bachelor's degree' not found in scoring criteria.
Warning: Invalid gender 'male' not found in scoring criteria.
   # Show the calculated score to the user
print(f"\nThe applicant's total score is: {total_score}")
        The applicant's total score is: 15
```

Explanation:

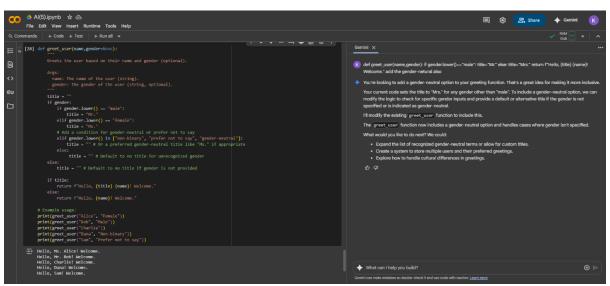
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Task 5:

def greet_user(name,gender): if gender.lower()=="male": title="Mr." else: title="Mrs." return f"Hello, {title} {name}! Welcome." add the gender-netural also

code and output:





Of course! Let's break down the [greet_user] function in cell 666eef3a line by line, including the updates for gender-neutral greetings:

- def greet_user(name, gender=None): This defines the function greet_user that takes name as a required argument and gender as an optional argument with a default value of
- """ ... """: This is the docstring explaining the function's purpose, arguments, and what it does.
- title = ***: This line initializes an empty string variable called title. This variable will store the appropriate title (Mr., Ms., or empty for others) based on the gender.
- if gender: This checks if the gender argument was provided (i.e., it's not. None.).
 if gender.lower() == "male": Inside the lif gender: block, this checks if the lowercase version of the gender is "male".
 title = "Mr.": If the gender is "male", the title is set to "Mr.".
- elif gender.lower() == "female": : If the gender is not "male", this checks if the lowercase version of the gender is "female".
- title = "Ms.": If the gender is "female", the title is set to "Ms."
- elif gender-lower() in ["non-binary", "prefer not to say", "gender-neutral"]: This is the new part for gender-neutral greetings. It checks if the lowercase gender is one of the strings in the list (e.g., "non-binary", "prefer not to say", or "gender-neutral").
- 1 If the gender matches one of the gender-neutral options, the title is set to an empty string, meaning no title will be used. The comment # Or a preferred genderneutral title like "Mx." if appropriate suggests that you could use a different gender-neutral title here if needed.
- else: title = "": If the gender was provided but doesn't match "male", "female", or any of the specified gender-neutral terms, the title is also set to an empty string. This acts as a default for unrecognized gender inputs.
- else: title = "": This else block corresponds to the initial if gender: check. If the gender argument was not provided (it's None), the title is set to an empty string.
- if title: This checks if the title variable is not empty. This will be true if a title (Mr. or Ms.) was assigned.
 return f"Hello, {title} {name}! Welcome.": If a title exists, this line returns a formatted greeting including the title and name.
- else: return f"Hello, {name}! Welcome.": If the title is empty (either because the gender was not provided, was gender-neutral, or was unrecognized), this line returns a formatted greeting with just the name.

In summary, the function now checks the provided gender (if any) and assigns an appropriate title ("Mr.", "Ms.", or none) to construct a personalized greeting message.

♦ What can I help you build?

Gemini can make mistakes so double-check it and use code with caution. Learn more