Assignment-5.2

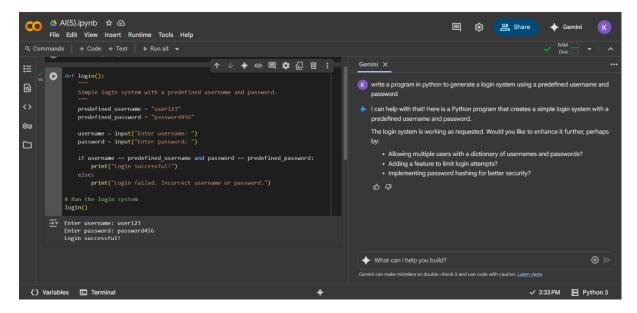
Name: K. Vinod

2403a52132

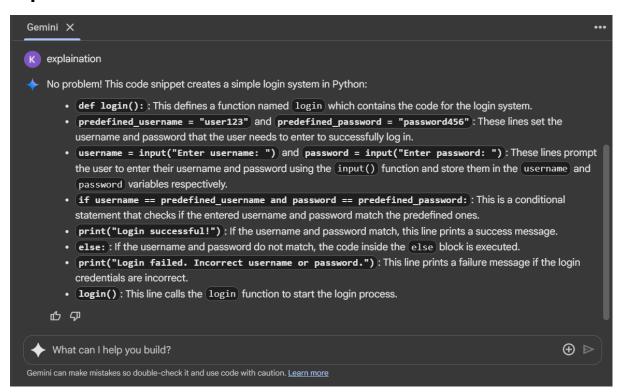
Task 1:

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

code:



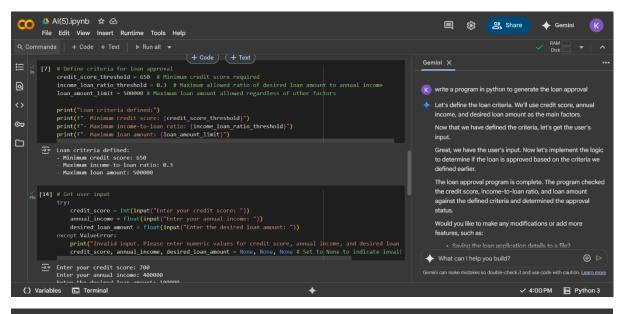
Explanation:



Task 2:

write a program in python to generate the loan approval

code and output:



```
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          File Edit View Insert Runtime Tools Help
E | 19s [14] # Get user input
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 # Set to None to indicate invali
☞
          Enter your credit score: 700
Enter your annual income: 400000
Enter the desired loan amount: 100000
\Box
                                                                                                           ↑ ↓ ♦ ⊖ 🗏 💠 🗓 🔟 🚼
          0
                 is_approved = False
                      # Check credit score
                      if credit_score >= credit_score_threshold:
                            # Check income-to-loan ratio
if desired_loan_amount <= (ann
# Check loan amount limit

# Check loan amount limit
                                                                                                        atio threshold):
                                 if desired_loan_amount <= loan_amount_limit:</pre>
                                      print(f"Loan denied: Desired loan amount exceeds the maximum limit of {loan_amount_limit
```

```
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 CO
        File Edit View Insert Runtime Tools Help
                                                                                     ↑ ↓ ♦ ⇔ 🗏 🛱 🗓 🔟 🚼
        # Implement approval logic
is_approved = False
Q
                  # Check credit score
if credit_score >= credit_score_threshold:
                      # Check income-to-loan ratio
if desired_loan_amount <= (annual_income * income_loan_ratio_threshold):
    # Check loan amount limit</pre>
☞
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
                          print(f"Loan denied: Income-to-loan ratio is too high. Your desired loan amount should be no
                      print(f"Loan denied: Credit score is below the minimum required of {credit_score_threshold}.")
                  print("Loan approval cannot be determined due to invalid input.")

→ Loan approved!
```

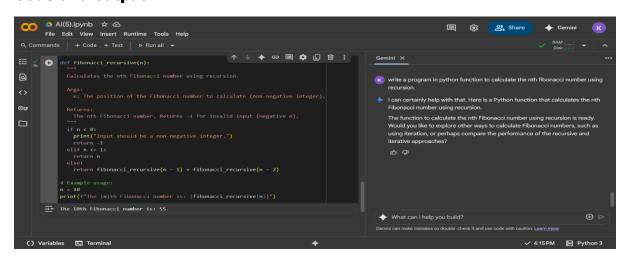
Explanation:



Task 3:

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

Code and output:



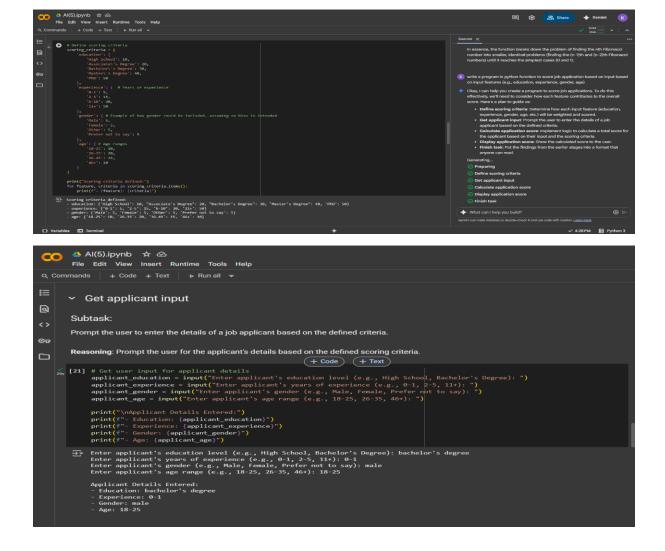
Explanation:



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)

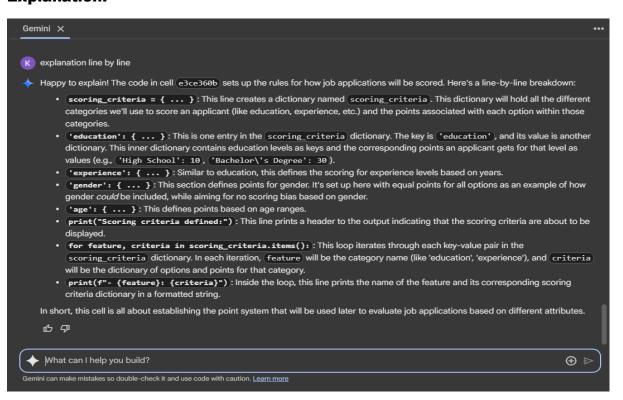
code and output:



```
△ Al(5).ipynb ☆ △
        File Edit View Insert Runtime Tools Help
    [22] # Implement logic to calculate total score total score = 0
Q
             # Get score for education
                 total_score += scoring_criteria['education'][applicant_education]
⊙ಾ
                 print(f"Warning: Invalid education level '{applicant_education}' not found in scoring criteria.")
total_score += scoring_criteria['experience'][applicant_experience]
             except KeyError:
    print(f"Warning: Invalid experience level '{applicant_experience}' not found in scoring criteria.")
             # Get score for gender
             try:
   total_score += scoring_criteria['gender'][applicant_gender]
                 print(f"Warning: Invalid gender '{applicant_gender}' not found in scoring criteria.")
                 total_score += scoring_criteria['age'][applicant_age]
                 print(f"Warning: Invalid age range '{applicant_age}' not found in scoring criteria.")
             print(f"\nTotal applicant score: {total_score}")
        Warning: Invalid education level 'bachelor's degree' not found in scoring criteria.

Warning: Invalid gender 'male' not found in scoring criteria.
             Total applicant score: 15
        print(f"\nThe applicant's total score is: {total_score}")
        The applicant's total score is: 15
```

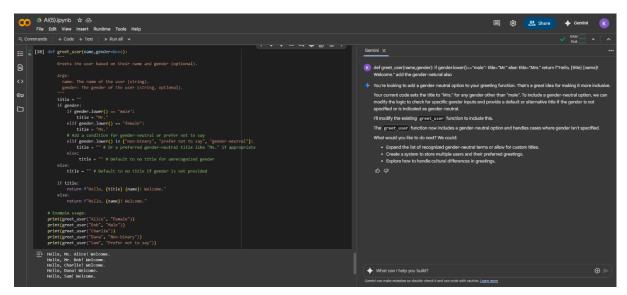
Explanation:



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:



Explanation:

