**Lab-6.3**

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**Task Description#1 (Classes)**

* Use AI to complete a Student class with attributes and a method.
* Check output
* Analyze the code generated by AI tool

**Instructions**:

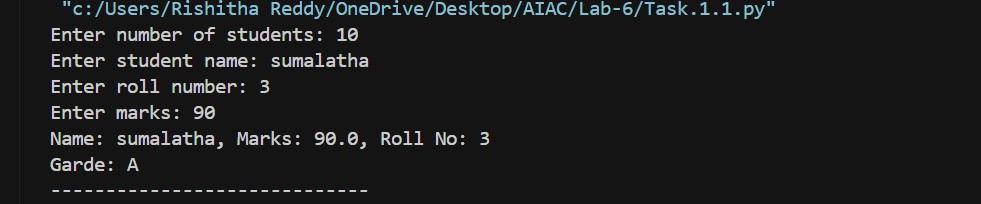
* **Initialize class with attributes like name, roll no, marks**
* **Method to display student details**
* **Method to calculate grade based on marks (A:>=90, B: >=75, C: >=60, else Fail)**

Start Writing code and auto complete using any AI tool

**Expected Output#1**

* Class with constructor and display\_details() method



OUTPUT:

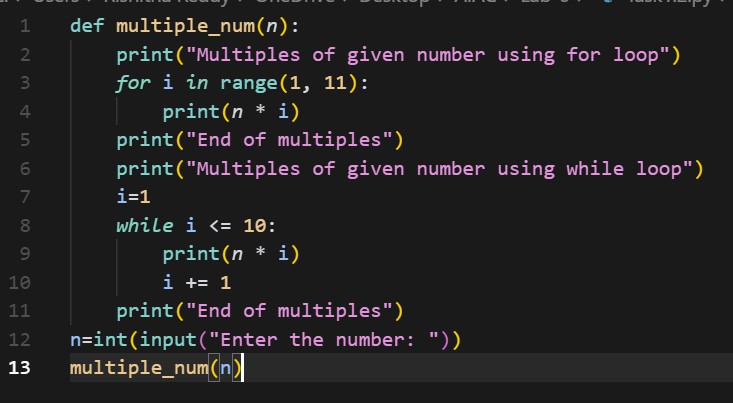
**Task Description#2 (Loops)**

* Prompt AI to complete a function that prints the first 10 multiples of a number using a loop.
* Analyze the generated code
* Ask AI to generate code using other controlled looping

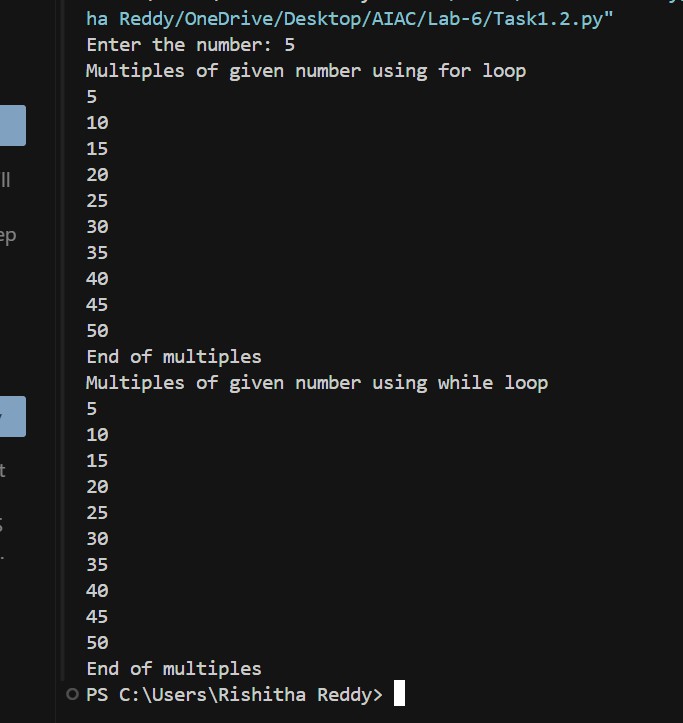
Write code using **For** Loop, later complete code using **While** Loop

**Expected Output#2**

* Correct loop-based implementation



OUTPUT:



**Task Description#3 (Conditional Statements)**

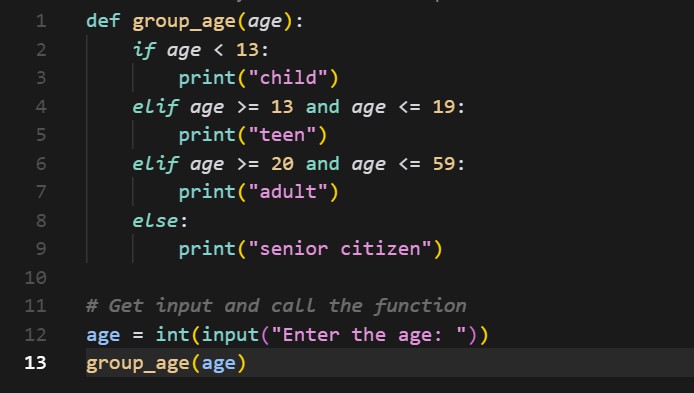
* Ask AI to write nested if-elif-else conditionals to classify age groups.
* Analyze the generated code
* Ask AI to generate code using other conditional statements



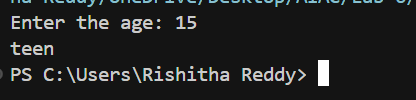
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**Expected Output#3**

* Age classification function with appropriate conditions and with explanation



**OUTPUT:**

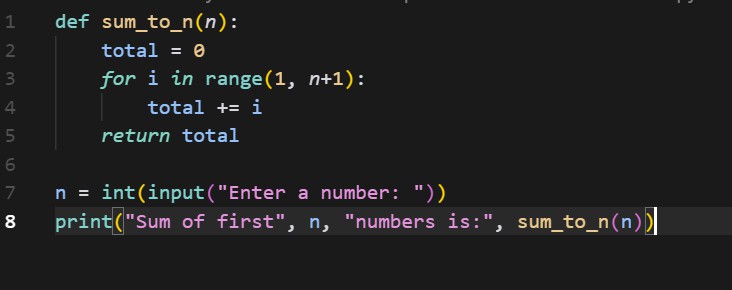
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**Task Description#4 (For and While loops)**

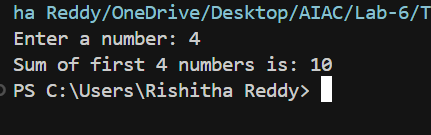
* **Generate a sum\_to\_n() function to calculate sum of first n numbers**
* **Analyze the generated code**
* **Get suggestions from AI with other controlled looping**

**Expected Output#4**

* **Python code with explanation**

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OUTPUT:



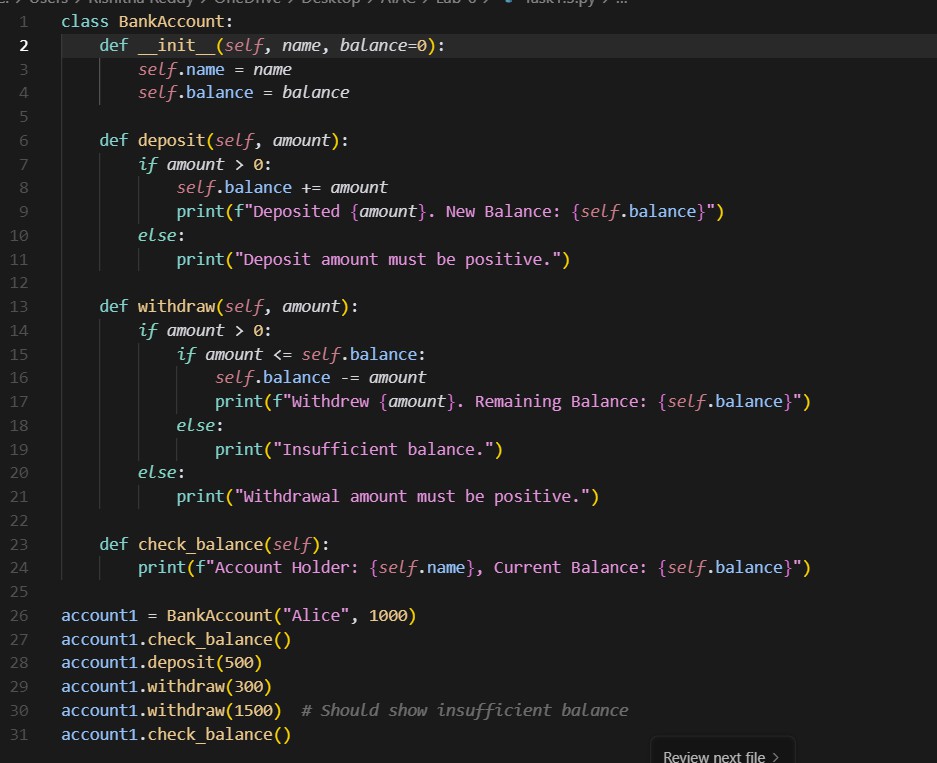
**Task Description#5 (Class)**

* Use AI to build a BankAccount class with deposit, withdraw, and balance methods.
* Analyze the generated code
* Add comments and explain code

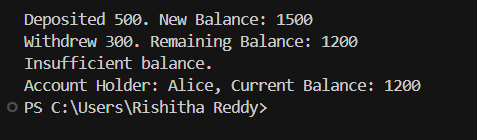
**Instructions**

* **Initialize BankAccount class with attributes like name, balance**
* **Method to deposit amount**
* **Method to withdraw amount**
* **Method to check balance**

**Expected Output#5**

* Python code with explanation
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**OUTPUT:**

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