AI ASSISTANT CODING

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ASSIGNMENT 8.2

Task Description#1

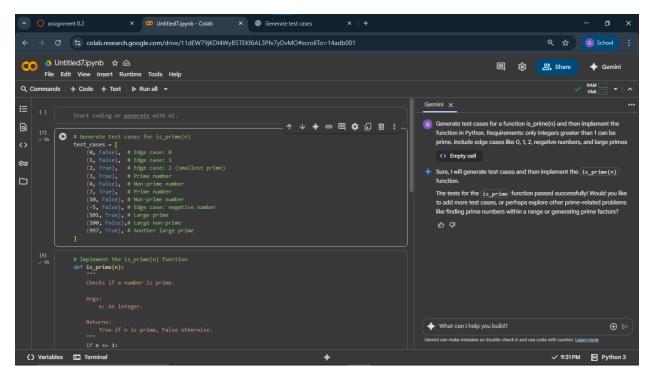
Use AI to generate test cases for a function is prime(n) and then implement the function.

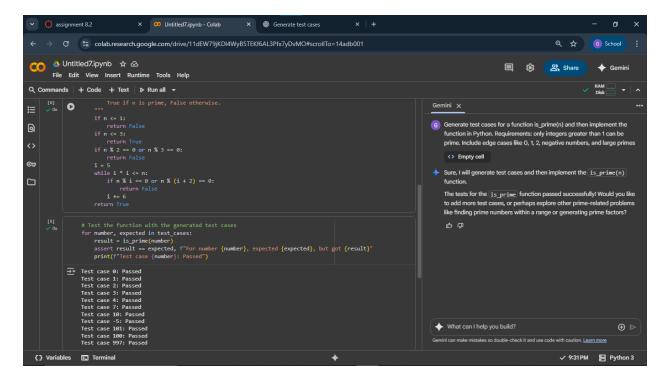
Requirements:

• Only integers > 1 can be prime.

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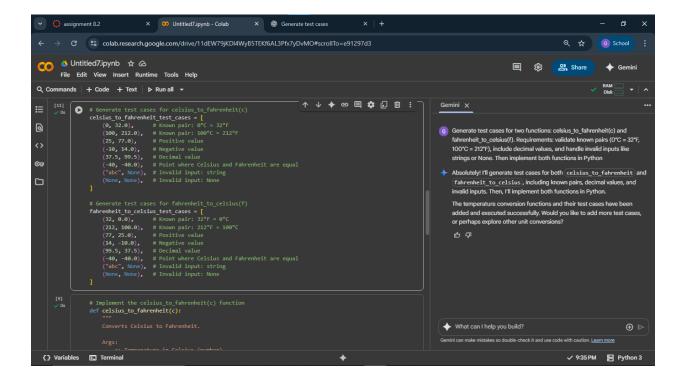
Check edge cases: 0, 1, 2, negative numbers, and large primes.

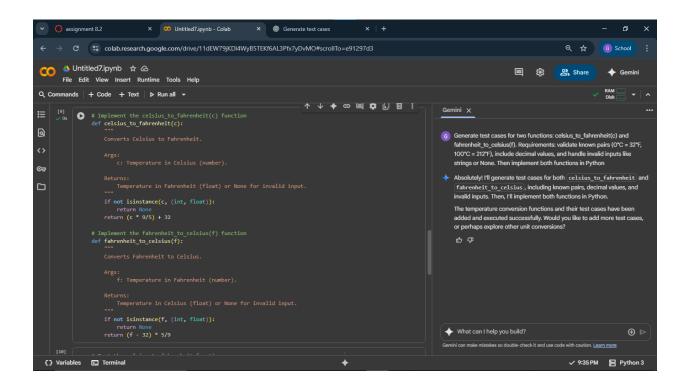


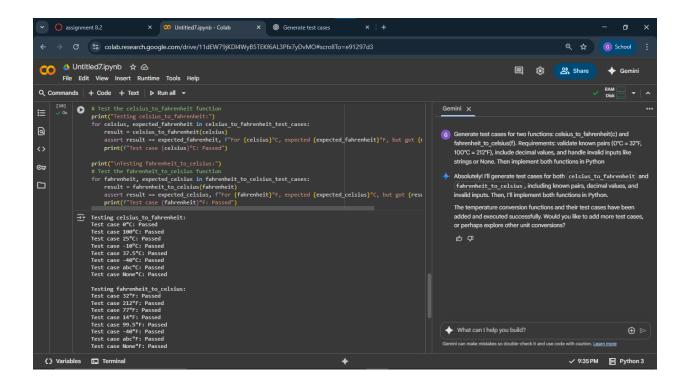


Task Description#2 (Loops)

- Ask Al to generate test cases for celsius_to_fahrenheit(c) and fahrenheit_to_celsius(f).
 Requirements
- Validate known pairs: 0°C = 32°F, 100°C = 212°F.
- Include decimals and invalid inputs like strings or None





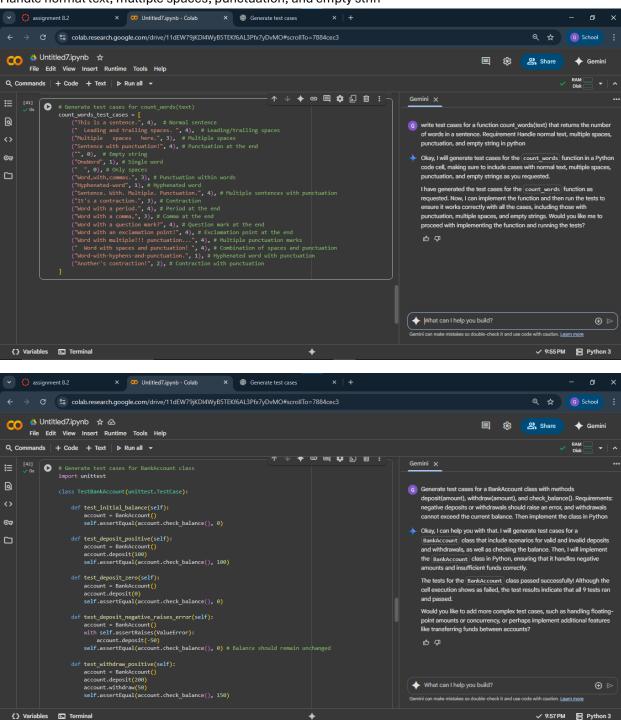


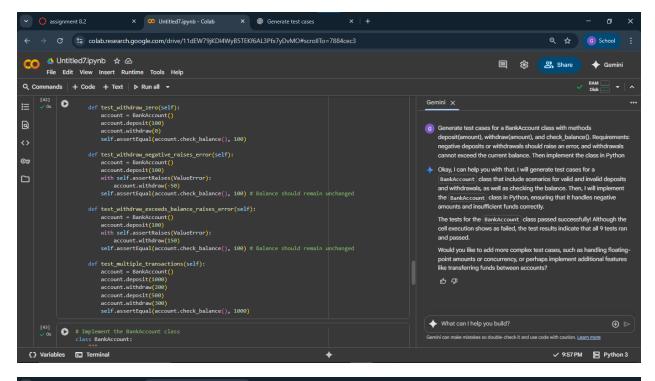
Task Description#3

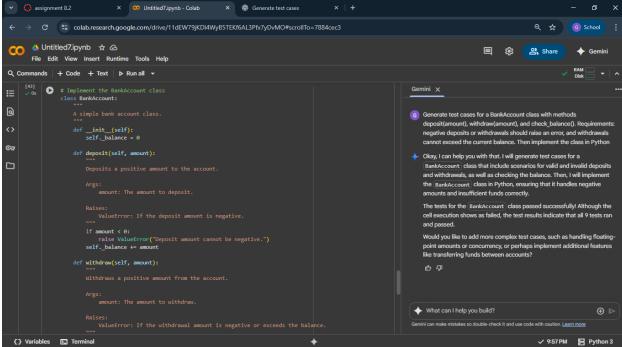
Use Al to write test cases for a function count_words(text) that returns the number of words in a sentence.

Requirement

Handle normal text, multiple spaces, punctuation, and empty strin







Task Description#4

• Generate test cases for a BankAccount class with:

Methods:

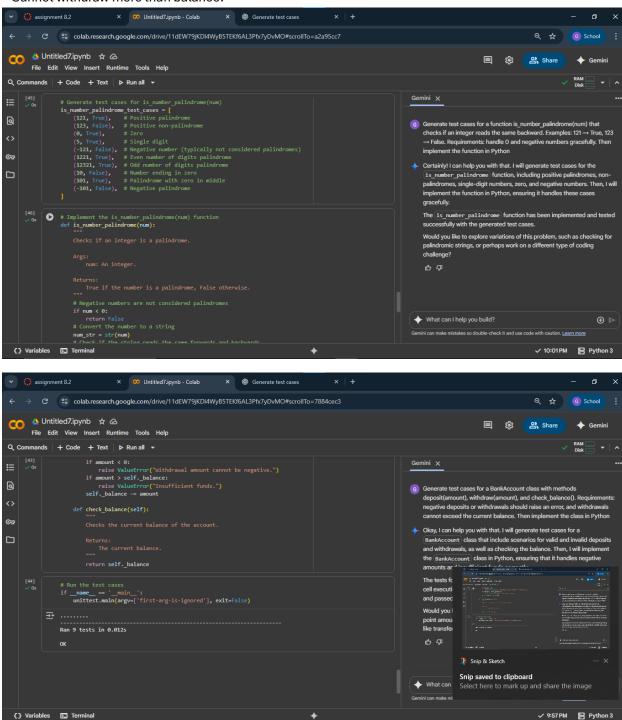
deposit(amount)

withdraw(amount)

check_balance()

Requirements:

- Negative deposits/withdrawals should raise an error.
- Cannot withdraw more than balance.



Task Description#5

Generate test cases for is_number_palindrome(num), which checks if an integer reads

the same backward.

Examples:

121 → True

123 → False

0, negative numbers → handled gracefully

