

Python Indentation

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1 Python Indentation

Scenario 1: ATM System

This scenario simulates an ATM system with multiple levels of indentation, nested conditions, and exception handling.

Python Code

```
CORRECT_PIN = "1234"
BALANCE = 5000
ACCOUNT_STATUS = "active"
ATM_CASH = 2000
MAX_ATTEMPTS = 3

def authenticate():
    attempts = 0
    while attempts < MAX_ATTEMPTS:
        entered_pin = input("Enter your PIN: ")
        if entered_pin == CORRECT_PIN:
            print("PIN verified successfully.")
            return True
        else:
            attempts += 1
            print(f"Incorrect PIN! Attempts left: {MAX_ATTEMPTS - attempts}")
    print("Too many incorrect attempts! Your account is locked.")
    return False

def withdraw():
    global BALANCE, ATM_CASH
    if authenticate():
        if ACCOUNT_STATUS == "active":
            if ATM_CASH > 0:
```

```

try:
    amount = int(input("Enter withdrawal amount: "))
    if amount > 0:
        if amount <= BALANCE:
            if amount <= ATM_CASH:
                BALANCE -= amount
                ATM_CASH -= amount
                print(f"Transaction Successful! Withdrawn: ${amount}")
            else:
                print("ATM does not have enough cash.")
        else:
            print("Insufficient Balance!")
    else:
        print("Invalid amount!")
except ValueError:
    print("Error: Enter a valid number.")
else:
    print("ATM is out of cash.")
else:
    print("Account is frozen!")
withdraw()

```