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print("AGRICULTURE LOAN ELIGIBILITY CHECKER")

#input from farmer

farmer_name = input("Enter Farmer's Name: ")

farmer_age = int(input("Enter the age of Farmer: "))

farmer_income = float(input("Enter the annual income of the Farmer in Indian Rupees: "))

farmer_land_area = float(input("Enter the total land of the farmer in acres: "))

farmer_crop_type = input("Enter the crop type from farmer: ")

print("Please check loan eligibility:")

existing_loans = input("Do you have any existing loan? (yes/no): ").lower()

print("Checking your loan eligibility..... Please wait a second")

# Supported_crop list (in lowercase for case-insensitive check)

supported_crops = ["rice", "brinjal", "peas", "groundnuts", "wheat", "maize", "sugarcane"]

# Convert the farmer's crop type to lowercase

farmer_crop_type_lower = farmer_crop_type.lower()

# Function to check eligibility: returns (Boolean, Reason_String)

def check_eligibility(age, income, land_area, existing, crop, supported_crops_list):

    # checking the age of farmer

    if age < 18 or age > 70:

        # FIX: Use return False and the reason string

        return False, "Age must be between 18 and 70."

    # checking the Minimum income of farmer

    elif income < 60000:

        # FIX: Use return False and the reason string
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        return False, "Minimum annual income must be 60,000 INR."  
  
# checking Minimum land area of farmer  
elif land_area < 1:  
    # FIX: Use return False and the reason string  
    return False, "At least 1 acre of land is required."  
  
# checking Existing loan of farmer  
elif existing == "yes":  
    # FIX: Use return False and the reason string  
    return False, "Existing loan detected. Please clear previous dues."  
  
# checking Supported crop of farmer  
elif crop not in supported_crops_list:  
    # FIX: Use return False and the reason string (with f-string for the crop name)  
    return False, f"Crop '{crop}' is not supported by this loan program."  
  
# All checks passed  
else:  
    # FIX: Use return True and the success message  
    return True, "Eligible for loan!"  
  
# Call the function and correctly unpack the returned tuple  
is_eligible, reason = check_eligibility(  
    farmer_age,  
    farmer_income,  
    farmer_land_area,  
    existing_loans,  
    farmer_crop_type_lower,
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supported_crops
)

# the final result output
print("-- Eligibility Result --")
print(f"Farmer: {farmer_name}")

if is_eligible:
    print("****ELIGIBILITY STATUS: LOAN APPROVED!****")
    print("Message has sent to your mobile phone")
    print("Thank you visit again")
else:
    print(f"**ELIGIBILITY STATUS: LOAN DENIED.** Reason: {reason}")
    print("Recommendation: Please review the requirements or consult with a loan
officer.")
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