
Name : Kaviya K
Phone no : 9344244768

Email'd :kaviyasince2003@gmail.com

Python Assignment: 3

```
import re

def check_receipt(receipt):
    """
    Checks if the sales receipt status is valid.
    """
    try:
        receipt_no = input("Enter the receipt number: ")
        if not re.match(r'^\d+$', receipt_no):
            raise ValueError("Receipt number should only contain digits.")
        return receipt.get('status') == 'valid'
    except ValueError as e:
        print(f"Error: {e}")
        return False

def license_check(customer):
    """
    Checks if the customer has a valid driving license.
    """
    try:
        if customer['license_status'] != 'valid':
            raise ValueError("Driving license status is invalid.")
        return True
    except ValueError as e:
        print(f"Error: {e}")
        return False

def financial_check(customer):
    """
    Checks if the customer's financial status is adequate for purchase.
    """
    try:
        if customer['financial_status'] not in ['good', 'excellent']:
            raise ValueError("Financial status is inadequate for purchase.")
        return True
    except ValueError as e:
        print(f"Error: {e}")
        return False

def car_weight_check(weight):
    """
    Checks if the car's weight is under the limit for the customer to handle.
    """
    try:
        if not isinstance(weight, (int, float)):
            raise ValueError("Car weight must be a number.")
        if weight < 0:
            raise ValueError("Car weight cannot be negative.")
```

```

        return weight < 3000 # Assuming 3000 kg is the maximum permissible weight
    except ValueError as e:
        print(f"Error: {e}")
        return False

def insurance_check(car):
    """
    Checks if the car has valid insurance.
    """
    try:
        if car['insurance_status'] != 'valid':
            raise ValueError("Insurance status is invalid.")
        return True
    except ValueError as e:
        print(f"Error: {e}")
        return False

def main():
    """
    Main function to handle the car showroom check process.
    """
    print("Welcome to the Car Showroom")

    # Receipt Check
    receipt = {'status': 'valid'}
    if check_receipt(receipt):
        print("Receipt is valid. You are eligible for further checks.")
    else:
        print("Invalid receipt. You cannot proceed further.")
        return

    # Driving License Check
    print("Driving License Check")
    customer = {
        'name': 'John Doe',
        'license_status': 'valid',
        'financial_status': 'excellent'
    }
    if license_check(customer):
        print(f"Customer {customer['name']} has a valid driving license. You are eligible for further checks.")
    else:
        print(f"Customer {customer['name']} does not have a valid driving license. You cannot proceed further.")
        return

    # Financial Check
    print("Financial Status Check")
    if financial_check(customer):
        print(f"Customer {customer['name']} has an adequate financial status. You are eligible for further checks.")
    else:
        print(f"Customer {customer['name']} does not have an adequate financial status. You cannot proceed further.")
        return

```

```

# Car Weight Check
print("Car Weight Check")
car_weight = 2500 # Example car weight
if car_weight_check(car_weight):
    print(f"Car weight is under the permissible limit. You are eligible to proceed with the purchase.")
else:
    print("Car weight exceeds the permissible limit. You cannot proceed with the purchase.")
    return

# Insurance Check
print("Insurance Check")
car = {'insurance_status': 'valid'}
if insurance_check(car):
    print(f"The car has valid insurance. You are eligible to proceed with the purchase.")
else:
    print("The car does not have valid insurance. You cannot proceed with the purchase.")
    return

print("All checks have been completed successfully. Congratulations! You can proceed with the purchase.")

if __name__ == "__main__":
    main()

```

Output:

```

Enter the receipt number: 908
Receipt is valid. You are eligible for further checks.
Driving License Check
Customer John Doe has a valid driving license. You are eligible for further checks.
Financial Status Check
Customer John Doe has an adequate financial status. You are eligible for further checks.
Car Weight Check
Car weight is under the permissible limit. You are eligible to proceed with the purchase.
Insurance Check
The car has valid insurance. You are eligible to proceed with the purchase.
All checks have been completed successfully. Congratulations! You can proceed with the purchase.
PS D:\besant\self practice>

```