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- Course: ITT103
- Purpose: This Python program declares the number of seats for each class and initializes the seat count s for each class.
It then displays a menu with reservation options for First Class, Business Class, and Economy Class then proceeds with seat selection logic for all classes.

```
# Declare the number of seats for each class
FIRST_CLASS_SEATS = 27
BUSINESS_CLASS_SEATS = 38
ECONOMY_CLASS_SEATS = 56

# Initialize the seat counts for each class
seats = [[0] * FIRST_CLASS_SEATS, [0] * BUSINESS_CLASS_SEATS, [0] * ECONOMY_CLASS_SEAT
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def display_menu():
    # Declare arrays for each bus
    first_class_seats = [[0] * 9 for _ in range(3)]
    business_class_seats = [[0] * 19 for _ in range(2)]
    economy_seats = [[0] * 14 for _ in range(4)]

    # Display the menu
    print("UCC Signature Express Limited")
    print("YOUR JOURNEY BEGINS HERE")
    print("Reservation Options:")
    print("Please select an option:")
    print(" First Class (F/f)")
    print(" Business Class (B/b)")
    print(" Economy Class (E/e)")
    print(" Quit or Cancel (Q/q)")

    # Proceed with seat selection logic for all classes
    while True:
        choice = input("Enter your choice: ")
        if choice.lower() == "f":
            row_number = int(input("Enter row number (1-9): "))
            seat_type = input("Enter the seat type: Aisle (A/a), Window (W/w), or Cancel (C/c): ")
            if seats[0][row_number - 1] == 0:
                # Seat is available
                seats[0][row_number - 1] = 1
                print(f"Window seat in row {row_number} has been reserved.")
            else:
                # Seat is already reserved
                print(f"Sorry, the window seat in row {row_number} has already been reserved. Please choose
another seat.")
        elif choice.lower() == "b":
            row_number = int(input("Enter row number (1-19): "))
            seat_type = input("Enter the seat type: Aisle (A/a), Window (W/w), or Cancel (C/c): ")
            if seats[1][row_number - 1] == 0:
                # Seat is available
                seats[1][row_number - 1] = 1
                print(f"Window seat in row {row_number} has been reserved.")
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            else:
                # Seat is already reserved
                print(f"Sorry, the window seat in row {row_number} has already been reserved. Please choose another seat.")
        elif choice.lower() == "e":
            row_number = int(input("Enter row number (1-14): "))
            seat_type = input("Enter the seat type: Aisle (A/a), Window (W/w), or Cancel (C/c): ")
            if seats[2][row_number - 1] == 0:
                # Seat is available
                seats[2][row_number - 1] = 1
                print(f"Window seat in row {row_number} has been reserved.")
            else:
                # Seat is already reserved
                print(f"Sorry, the window seat in row {row_number} has already been reserved. Please choose another seat.")
        elif choice.lower() == "q":
            break
        else:
            print("Invalid choice. Please try again.")

# Call the display_menu function to start the reservation process
display_menu()
```