

QUESTION 1

```
void main() {  
    // 1. Create a list of student names  
    List<String> students = ["Alice", "Bob", "Charlie"];  
  
    // 2. Create a 2D list to store attendance for 5 days (true = present,  
false = absent)  
    List<List<bool>> attendance = [  
        [true, false, true, true, true], // Alice  
        [true, true, false, false, true], // Bob  
        [false, true, true, true, false], // Charlie  
    ];  
  
    // Total number of days  
    int totalDays = 5;  
  
    // 3. Loop through each student and calculate attendance  
    for (int i = 0; i < students.length; i++) {  
        // Count number of present days  
        int presentDays = attendance[i].where((day) => day).length;  
  
        // Calculate attendance percentage  
        double percentage = (presentDays / totalDays) * 100;  
  
        // Display result  
        print(  
            "${students[i]}: Present $presentDays days, Attendance =  
${percentage.toStringAsFixed(2)}%",  
        );  
    }  
}
```

OUTPUT

```
Alice: Present 4 days, Attendance = 80.00%  
Bob: Present 3 days, Attendance = 60.00%  
Charlie: Present 3 days, Attendance = 60.00%
```

QUESTION 2

```
class Ride {
    double distance; // in km
    double ratePerKm;
    bool peakHour;

    Ride(this.distance, this.ratePerKm, this.peakHour);

    double calculateFare() {
        double fare = distance * ratePerKm;
        if (peakHour) {
            fare += fare * 0.20; // 20% surcharge during peak hours
        }
        return fare;
    }
}

void main() {
    // Create a list of 3 rides with different distances and peak hour
    status
    List<Ride> rides = [
        Ride(10.0, 15.0, true), // 10 km, peak hour
        Ride(7.5, 12.0, false), // 7.5 km, non-peak
        Ride(15.0, 14.0, true), // 15 km, peak hour
    ];

    double totalEarnings = 0;

    for (int i = 0; i < rides.length; i++) {
        double fare = rides[i].calculateFare();
        print("Ride ${i + 1} Fare: ₹${fare.toStringAsFixed(2)}");
        totalEarnings += fare;
    }

    print("Total Earnings: ₹${totalEarnings.toStringAsFixed(2)}");
}
```

Output

```
Ride 1 Fare: ₹180.00
Ride 2 Fare: ₹90.00
Ride 3 Fare: ₹252.00
Total Earnings: ₹522.00
```

