**INPUT:-**

import java.time.LocalTime; import java.time.Duration; import java.time.format.DateTimeFormatter; public class MetroTimetable {

public static void main(String[] args) { int totalStations = 10;

Duration travelTimeBetweenStations = Duration.ofSeconds(3 \* 60 + 30);

Duration waitingTimeAtStations = Duration.ofSeconds(30);

Duration waitingTimeAtSource = Duration.ofMinutes(20); Duration waitingTimeAtDestination = Duration.ofMinutes(20); boolean trainDelayed = true;

if (trainDelayed) { waitingTimeAtSource = waitingTimeAtSource.minusMinutes(5); waitingTimeAtDestination = waitingTimeAtDestination.minusMinutes(5);

}

LocalTime startTime = LocalTime.of(9, 0);

LocalTime currentTime = startTime.plus(waitingTimeAtSource);

System.out.println("Metro Train Timetable:");

System.out.println("Source Departure: " + startTime.format(DateTimeFormatter.ofPattern("HH:mm")));

for (int i = 1; i <= totalStations; i++) {

currentTime = currentTime.plus(travelTimeBetweenStations).plus(waitingTimeAtStations);

System.out.println("Station " + i + " Arrival: " +

currentTime.format(DateTimeFormatter.ofPattern("HH:mm")));

}

currentTime = currentTime.plus(travelTimeBetweenStations).plus(waitingTimeAtDestination);

System.out.println("Destination Arrival: "

currentTime.format(DateTimeFormatter.ofPattern("HH:mm")));

}

}

# OUTPUT :-

