SPRINGERNATURE

Coding Challenge

EXPECTATIONS

- You are required to write the software that works similar to the sample inputs given and generates output as shown in the Input-Output section.
- You should demonstrate the working software by building a console application or writing test program that exercises the sample inputs. For this purpose, you may use JUnit or any other testing framework.
- Maturity of your solution will be judged on your object oriented programming (or functional programming) and design skills.

NOT REQUIRED

- Solution to this assignment DO NOT REQUIRE any knowledge of relational database or OS / platform underlying.
- Use of any standard development kit (like JDK) should suffice to write a solution to this problem. Usage of additional libraries or frameworks (like Spring) is NOT EXPECTED in this assignment.

Story#1

Taxi Ticket System:
Write a Java/Scala application that will calculate and generate a taxi ticket for a given no. travellers, Source and Destination. The application will have routes information i.e. (Place1, Place2 and Distance in kms) available within (hardcoded) like below.

From	To	Distance(KM)
PUNE	MUMBAI	120
PUNE	NASIK	200
MUMBAI	GOA	350
MUMBAI	NASIK	180

Rules for fare calculation per person:
1st 100 km = 750 INR.
Then 5 INR per km.

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Sample Input:
source=PUNE, destination=NASIK, Travellers = 2
or
source=NASIK, destination=PUNE, Travellers = 2

**** - *You can skip providing inputs through the console, rather pass inputs through Main class or Testcase.*

Output:
Print the ticket format below on the console.

```
Taxi Ticket
-----------
Source: PUNE
Destination: NASIK
Kms: 200
No. of travellers = 2
Total = 2500 INR
```

Story#2 (Optional)

You don't have to implement below stories, but consider how you can design or enhance your code (of Story#1) to accomodate below changes:

- Change in Ticket format.
- Adding or modifying the routes information.