# Spring Tasks

## Task1 : TICKETBOOKER AND FARE CALCULATOR

**[Note:    
Strictly adhere to the object-oriented specifications given as a part of the problem statement.  
Follow the naming conventions as mentioned.  Create separate classes in separate files.]**

Vimal has to create a ticket booking application. The tickets can only be booked for 3 persons. He need not get any input from the users for this sake. So, he injects the numberOfPersons as 3 in a xml file(Setter Based Dependency Injection).He creates a simple application that tells the rate for the reservation of 3 tickets.

Create a class **TicketBooking** with the following attributes/variables

| **Data Type** | **Variable** |
| --- | --- |
| int | numberOfPerson |
| Double | fare |

The TicketBooking class involves these methods like

| **Method** | **Description** |
| --- | --- |
| double faregenerator() | This method returns the value of the fare. |

Include appropriate getters and setters for this class.  
  
**Problem Constraints:**  
In the applicationContext.xml file ,  
id=TicketBooking  
numberOfPersons = 3  
fare = 230

In the main method, get the reference and call the faregenerator and display method

**Sample Output :**  
The total cost for 3 persons is Rs.690.0

## Task2 : DISCOUNTS

**Discounts**

**[Note:    
Strictly adhere to the object-oriented specifications given as a part of the problem statement.  
Follow the naming conventions as mentioned.  Create separate classes in separate files.]**   
  
Vimal being a social worker, decides to give discounts to the tickets that are booked. He decides upon the percentage of discounts he is going to give. Refer the following table that contains , the categories and their discounts.

| **Category** | **Discount** |
| --- | --- |
| senior citizen | 30 |
| ex-service men | 50 |
| infants | 20 |

The normal fee for an individual is 230.

So Vimal decides to create an application that generates three tickets at once and provides the  fare details along with the discount.

Create a class TicketBooking with the following variables/attributes

| **Data Type** | **Variables** |
| --- | --- |
| int | numberOfPersons |
| Double | fare |

Include Appropriate getters and setters for setter based Dependency Injection.  
The class contains the following method

| **Method** | **Description** |
| --- | --- |
| double faregenerator() | This method gets the number of senior citizens, ex-servicemen and infants from the user.  It applies the appropriate discounts, and returns the fare. |

**Problem Constraints :**  
Setter based dependancy injection.  
In the applicationContext.xml file set the  
id=TicketBooking  
fare as 230  
numberOfPersons as 3

In the main method, get the get the reference and call the faregenerator() and display method.  
**Input and Output Format**   
Refer sample input and output for formatting specifications.   
**All text in bold corresponds to the input and the rest corresponds to output.**   
  
**Sample Input and Output :**

**Enter the number of Senior Citizens**

1

**Enter the number of Ex Service Men**

2

**Enter the number of Infants below 2 years**

0

**The total cost for 3 is Rs.391.0**