

## TEST REPORT

### Unit Test REPORT

PASS

Whole output available in UnitTestOut.txt

#### BookingClasses

- Check for correct working of polymorphic hierarchy PASS
- Check for correct working of output streaming operator PASS

#### BookingClassTypes<T>

Where T -> ACFirstClassType, ExecutiveChairCarType, AC2TierType, FirstClassType, AC3TierType, ACChairCarType, SleeperType, SecondSittingType

- Check for correct working of all simple member functions
  - GetLoadFactor() PASS
  - GetName() PASS
  - IsAC() PASS
  - IsLuxury() PASS
  - IsSitting() PASS
  - GetNumberOfTiers() PASS
  - GetReservationCharge() PASS
  - GetTatkalLoadFactor() PASS
  - GetMinTatkalCharge() PASS
  - GetMaxTatkalCharge() PASS
  - GetMinTatkalDist() PASS
  - Check for correct working of output streaming operator PASS

#### BookingCategory

- Check for correct working of polymorphic hierarchy PASS
- Check for correct working of output streaming operator PASS
- Check for correct working of ReserveInCategory(), i.e., whether it returns NULL/non-NULL appropriately PASS

#### BookingCategoryTypes<T>

- Check for correct working of BookingCategory::General::Eligibility()
  - 1. Exception when Date of Reservation after Date of Booking PASS
  - 2. Exception when Date of Reservation more than an year before Booking PASS
  - 3. No Exception when all cases above are dissatisfied PASS
- Check for correct working of BookingCategory::Ladies::Eligibility()
  - 1. Exception when Date of Reservation after Date of Booking PASS

- 2. Exception when Date of Reservation more than an year before Booking PASS
  - 3. Exception when passenger is Male more than 12 years of age PASS
  - 4. No Exception when all cases above are dissatisfied PASS
- Check for correct working of BookingCategory::SeniorCitizen::Eligibility()
  - 1. Exception when Date of Reservation after Date of Booking PASS
  - 2. Exception when Date of Reservation more than an year before Booking PASS
  - 3. Exception when passenger is Male less than 60 years of age PASS
  - 4. Exception when passenger is Female less than 58 years of age PASS
  - 5. No Exception when all cases above are dissatisfied PASS
- Check for correct working of BookingCategory::DivyaangCat::Eligibility()
  - 1. Exception when Date of Reservation after Date of Booking PASS
  - 2. Exception when Date of Reservation more than an year before Booking PASS
  - 3. Passenger with Divyaang Id and/or Divyaang id absent PASS
  - 4. No Exception when all cases above are dissatisfied
- Check for correct working of BookingCategory::Tatkal::Eligibility() PASS
  - 1. Exception when Date of Reservation after Date of Booking PASS
  - 2. Exception when Date of Reservation more than an year before Booking PASS
  - 3. Reservation done more than 1 day before actual booking timings PASS
  - 4. No Exception when all cases above are dissatisfied PASS
- Check for correct working of BookingCategory::PremiumTatkal:Eligibility() PASS
  - 1. Exception when Date of Reservation after Date of Booking PASS
  - 2. Exception when Date of Reservation more than an year before Booking PASS
  - 3. Reservation done more than 1 day before actual booking timings PASS
  - 4. No Exception when all cases above are dissatisfied PASS
- Check for correct working of output streaming operator PASS

## Booking

- Check for correct working of Reserve
  - 1. Booking correctly constructed for Ladies Booking PASS
  - 2. Booking correctly constructed for Tatkal Booking PASS
  - 3. Exception thrown when fromStation = toStation PASS
- Check for correct working of output streaming operator PASS

## BookingTypes<T>

- Check for correct working of BookingCategory::General::CheckEligibility() (One valid and one invalid case) PASS
- Check for correct working of BookingCategory::Ladies::CheckEligibility() (One valid and one invalid case) PASS
- Check for correct working of BookingCategory::SeniorCitizen::CheckEligibility()(One valid and one invalid case) PASS
- Check for correct working of BookingCategory::DivyaangCat::CheckEligibility()(One valid and one invalid case) PASS

- Check for correct working of BookingCategory::Tatkal::CheckEligibility()(One valid and one invalid case) **PASS**
- Check for correct working of BookingCategory::PremiumTatkal::CheckEligibility()(One valid and one invalid case) **PASS**
- Check for correct working of BookingCategory::General::ComputeFare()(One valid and one invalid case) **PASS**
- Check for correct working of BookingCategory::Ladies::ComputeFare()(One valid and one invalid case) **PASS**
- Check for correct working of BookingCategory::SeniorCitizen::ComputeFare()(One valid and one invalid case) **PASS**
- Check for correct working of BookingCategory::DivyaangCat::ComputeFare()(One valid and one invalid case) **PASS**
- Check for correct working of BookingCategory::Tatkal::ComputeFare()(One valid and one invalid case) **PASS**
- Check for correct working of BookingCategory::PremiumTatkal::ComputeFare()(One valid and one invalid case) **PASS**

## Divyaang

- Check for correct working of polymorphic hierarchy **PASS**
- Check for correct working of output streaming operator **PASS**

## DisabilityTypes<T>

Check GetDivyaangConcessionFactor in a way which includes all Disability Types and all Booking Classes at least once

Where T -> BlindType, OrthopaedicallyHandicappedType, CancerPatientType, TBPatientType

- Check GetDivyaangConcessionFactor called by Blind Type for ACFirstClass **PASS**
- Check GetDivyaangConcessionFactor called by Blind Type for ExecutiveChairCar **PASS**
- Check GetDivyaangConcessionFactor called by Blind Type for FirstClass **PASS**
- Check GetDivyaangConcessionFactor called by Blind Type for AC2Tier **PASS**
- Check GetDivyaangConcessionFactor called by Blind Type for ExecutiveChairCar **PASS**
- Check GetDivyaangConcessionFactor called by Blind Type for AC3Tier **PASS**
- Check GetDivyaangConcessionFactor called by OrthopaedicallyHandicapped Type for AC Chair Car **PASS**
- Check GetDivyaangConcessionFactor called by Cancer PatientType for Sleeper **PASS**

- Check GetDivyaangConncessionFactor called by TBType for Second Sitting  
PASS
- Check for correct working of output streaming operator  
PASS

#### Gender

- Check working of polymorphic hierarchy  
PASS
- Check for correct working of output streaming operator  
PASS

#### GenderTypes<T>

- Check GetName() for Male  
PASS
- Check GetName() for Female  
PASS
- Check GetTitle() for Male  
PASS
- Check GetTitle() for Female  
PASS
- Check for correct working of output stream operator  
PASS

#### Name

- Check for correct working of output streaming operator  
PASS

#### Date

- Check for correct working of output streaming operator  
PASS
- Check Date construction with numbers  
PASS
- Check copy constructor for Date  
PASS
- Check if GetDay() returns correct Day  
PASS
- Check if GetMonth() returns correct Month  
PASS
- Check if GetYear() returns correct Year  
PASS
- Check for working of IsLeapYear()  
PASS
  1. Non-Leap year not divisible by 100  
PASS
  2. Non-leap year divisible by 100 but not by 400  
PASS
  3. Leap year divisible by 400  
PASS
  4. Leap year not divisible by 400  
PASS
- Check if CalculateAge() returns correct Age based on this year (input is taken as first of January to ensure the golden does not change within 1 year)  
PASS
- CalculateSpan() working correctly  
PASS
  1. when leap years are present in the middle  
PASS
  2. hen leap years are not present in the middle  
PASS
- Check Date::Today()  
APPLICATION TEST
- Check operator==  
PASS
  1. When matching  
PASS
  2. When not matching  
PASS
- Check for correct validation by IsValid() for integer inputs  
PASS
  1. Invalid year (not in 1900-2099)  
PASS
  2. Inavlid month (>12)  
PASS

- |   |      |
|---|------|
| 3. Invalid month (<12)  | PASS |
| 4. Invalid Day (<=0)  | PASS |
| 5. Invalid Day (29 Days in February in a non-leap year)         | PASS |
| 6. Valid Day (29 Days in February in a leap year)               | PASS |
| 7. Invalid Day (>30 Days in a month with 30 days)               | PASS |
| 8. Invalid Day (>31 Days in a month with 31 days)               | PASS |
| 9. No Exceptions when Valid Day                                 | PASS |
| • Check for correct validation by IsValid() for integer inputs  | PASS |
| 1. Invalid year (not in 1900-2099)                              | PASS |
| 2. Invalid month (>12)  | PASS |
| 3. Invalid month (<12)  | PASS |
| 4. Invalid Day (<=0)  | PASS |
| 5. Invalid Day (29 Days in February in a non-leap year)         | PASS |
| 6. Valid Day (29 Days in February in a leap year)               | PASS |
| 7. Invalid Day (>30 Days in a month with 30 days)               | PASS |
| 8. Invalid Day (>31 Days in a month with 31 days)               | PASS |
| 9. No Exceptions when Valid Day                                 | PASS |
| 10. Invalid Format (Not DD/MM/YYYY format with more characters) | PASS |
| 11. Invalid Format (Not DD/MM/YYYY format with less characters) | PASS |
| 12. Invalid Format (Non numeric characters present)             | PASS |
| 13. Invalid Format ('/' not present/replaced)                   | PASS |
| • Correct working of GetDate()                                  | PASS |
| 1. Valid Date - string  | PASS |
| 2. Invalid Date - string  | PASS |
| 3. Valid Date - Numbers   | PASS |
| 4. Invalid Date - Numbers                                       | PASS |

## Station

- |   |      |
|---|------|
| • Check for correct working of output streaming operator                                  | PASS |
| • Check constructor for Station with const char*  | PASS |
| • Check constructor for Station with string   | PASS |
| • Check copy assignment operator for Station  | PASS |
| • Check copy constructor for Station  | PASS |
| • Check GetDistances() for Stations   | PASS |
| 1. One direction  | PASS |
| 2. Symmetrical opposite direction   | PASS |
| • Check if GetName works correctly  | PASS |
| • Check validity of Stations by IsValid()   | PASS |
| 1. Exception when Empty Station Name  | PASS |
| 2. Exception when Station not present in DataBase   | PASS |
| • Check if GetDistances() throws Exceptions when asked for distances between same station | PASS |
| • Check if GetStation() works correctly   |      |

- |  |      |
|--|------|
| 1. Exception thrown for invalid Station      | PASS |
| 2. Returns correct station for valid station | PASS |

## Railways

- |  |                  |
|--|------------------|
| • Check for Singleton  | APPLICATION TEST |
| • Check if all correct stations are stored in list of Stations   | PASS             |
| • Check if sDistStations has correct distance between stations (matching with Golden Output)             | PASS             |
| • Check if testObj.GetDistance() returns correct distance between stations (matching with sDistStations) | PASS             |
| • Check for symmetric ordering of Stations   | PASS             |
| • Check working of IsValid()   | PASS             |
| 1. Duplicate Station should not be in stations database  | PASS             |
| 2. Same pair of stations with a given ordering should be in distances database EXACTLY once              | PASS             |
| 3. Both directions of same pair of stations should not be in distances database                          | PASS             |
| 4. Pair with same stations should not be present in distances database                                   | PASS             |
| • Check working for GetDistances   |                  |
| 1. Throws Exception when queried with the same stations  | PASS             |
| 2. Throws Exception when queried with station not in database  | PASS             |

## Concessions

Since it is templated, we do not need to check GetConcessions() for every pair, we make sure all BookingClasses and Booking Types including subtypes of Divyaang are covered.

- |  |      |
|--|------|
| • Check Get Concessions for Blind Type and ACFirstClass                      | PASS |
| • Check Get Concessions for Blind Type and ExecutiveChairCar                 | PASS |
| • Check Get Concessions for Blind Type and FirstClass                        | PASS |
| • Check Get Concessions for Blind Type and AC2Tier                           | PASS |
| • Check Get Concessions for Blind Type and ExecutiveChairCar                 | PASS |
| • Check Get Concessions for Blind Type and AC3Tier                           | PASS |
| • Check Get Concessions for OrthopaedicallyHandicapped Type and AC Chair Car | PASS |
| • Check Get Concessions for Cancer PatientType and Sleeper                   | PASS |
| • Check Get Concessions for TBType and Second Sitting                        | PASS |
| • Check Get Concessions for General Booking                                  | PASS |
| • Check Get Concessions for Ladies Booking                                   | PASS |
| • Check Get Concessions for female Senior Citizen                            | PASS |
| • Check Get concessions for male senior citizen                              | PASS |

## GeneralConcession

Testing is a subset of Concessions Testing (included there)

## VERDICT FROM CONCESSIONS

### LadiesConcession

Testing is a subset of Concessions Testing (included there)

## VERDICT FROM CONCESSIONS

### SeniorCitizenConcession

Testing is a subset of Concessions Testing (included there)

## VERDICT FROM CONCESSIONS

### DivyaangConcession

Testing is a subset of Concessions Testing (included there)

## VERDICT FROM CONCESSIONS

### Passenger

- Testing is a passenger is valid PASS
  - 1. Exception when both first and last names missing PASS
  - 2. Valid Naming + aadhar + birthday + mobile no - Middle Name missing PASS
  - 3. Valid Naming + aadhar + birthday + mobile no - No Name missing PASS
  - 4. Exception when Bad Aadhaar - Not 12 digits PASS
  - 5. Exception when Bad Aadhaar - Non numeric PASS
  - 6. Exception when Bad Mobile no - non empty with length not 10 PASS
  - 7. Exception when Bad Mobile no - non empty with non numeric PASS
  - 8. Mobile Number is valid PASS
  - 9. Exception when Bad Age - Not born yet PASS
- testing the overloaded == operator PASS
- Testing GetPassenger - Valid Case PASS
- Testing GetPassenger - InValid Case PASS
- Test Output streaming operator for Passenger PASS

## Application Test Report PASS

Whole output available in ApplicationOut.txt

To be done on \_DEBUG mode

- Test CONSTRUCTOR for all valid Classes PASS
- Test Singleton Nature for all Singletons PASS

- Test copy constructor wherever valid **PASS**

All 3 cases shown below

Maintained dependency order so that construction of Singletons is shown properly

Constructor Check of Bookings is shown in the next Segment.

-----GENDER-----

```
Gender Abstract Base Class --CONSTRUCTED
Gender = Male--CONSTRUCTED
```

```
Gender Abstract Base Class --CONSTRUCTED
Gender = Female--CONSTRUCTED
```

-----DIVYAANG-----

```
Abstract Base Class Divyaang --CONSTRUCTED
Divyaang = Blind --CONSTRUCTED
```

```
Abstract Base Class Divyaang --CONSTRUCTED
Divyaang = Orthopaedically Handicapped --CONSTRUCTED
```

```
Abstract Base Class Divyaang --CONSTRUCTED
Divyaang = Cancer Patient --CONSTRUCTED
```

```
Abstract Base Class Divyaang --CONSTRUCTED
Divyaang = TB Patient --CONSTRUCTED
```

-----PASSENGERS-----

```
Date = 5/Jan/1900 --CONSTRUCTED
Name = Oswald Octopus Voodoo --CONSTRUCTED
Date = 9/Apr/2021 --CONSTRUCTED
```



Date = 9/Apr/2021 --DESTRUCTED  
Date = 9/Apr/2021 --CONSTRUCTED  
Date = 9/Apr/2021 --DESTRUCTED  
Date = 9/Apr/2021 --CONSTRUCTED  
Date = 9/Apr/2021 --DESTRUCTED  
Date = 9/Apr/2021 --CONSTRUCTED  
Date = 9/Apr/2021 --DESTRUCTED  
Date = 9/Apr/2021 --CONSTRUCTED  
Date = 9/Apr/2021 --DESTRUCTED  
Passenger =  
-- Passenger Details --  
Name = Oswald Octopus Voodoo  
Age = 121  
Gender = Female  
Aadhar Number = 123456789123  
Mobile Number = 0123456789  
Disability Type = Blind  
DisabilityID = e  
--CONSTRUCTED  
Name = Oswald Octopus Voodoo --DESTRUCTED  
Date = 5/Jan/1900 --DESTRUCTED

Copy Ctor Passenger =  
-- Passenger Details --  
Name = Oswald Octopus Voodoo  
Age = 121  
Gender = Female  
Aadhar Number = 123456789123  
Mobile Number = 0123456789  
Disability Type = Blind  
DisabilityID = e  
--CONSTRUCTED

Date = 5/Jan/1900 --CONSTRUCTED  
Name = Oswald Octopus Voodoo --CONSTRUCTED  
Date = 9/Apr/2021 --CONSTRUCTED  
Date = 9/Apr/2021 --DESTRUCTED  
Date = 9/Apr/2021 --CONSTRUCTED  
Date = 9/Apr/2021 --DESTRUCTED  
Date = 9/Apr/2021 --CONSTRUCTED  
Date = 9/Apr/2021 --DESTRUCTED

Date = 9/Apr/2021 --CONSTRUCTED  
Date = 9/Apr/2021 --DESTRUCTED  
Date = 9/Apr/2021 --CONSTRUCTED  
Date = 9/Apr/2021 --DESTRUCTED  
Passenger =  
-- Passenger Details --  
Name = Oswald Octopus Voodoo  
Age = 121  
Gender = Male  
Aadhar Number = 123456789123  
Mobile Number = 0123456789  
Disability Type = Cancer Patient  
DisabilityID = f  
--CONSTRUCTED  
Name = Oswald Octopus Voodoo --DESTRUCTED  
Date = 5/Jan/1900 --DESTRUCTED

-----DATES-----

Date = 3/Jun/2021 --CONSTRUCTED

Date = 9/Apr/2021 --CONSTRUCTED

Date = 9/Apr/2021 --CONSTRUCTED

-----STATION-----

Station = Kolkata --CONSTRUCTED

Copy Ctor Station = Kolkata --CONSTRUCTED

Station = Delhi --CONSTRUCTED

-----RAILWAYS-----

Railways = Stations:

1. Mumbai
2. Bangalore
3. Delhi
4. Chennai
5. Kolkata

Distances between Stations:

Bangalore - TO - Chennai - 350 KM  
Delhi - TO - Bangalore - 2150 KM  
Delhi - TO - Chennai - 2180 KM  
Delhi - TO - Kolkata - 1472 KM  
Kolkata - TO - Bangalore - 1871 KM  
Kolkata - TO - Chennai - 1659 KM  
Mumbai - TO - Bangalore - 981 KM  
Mumbai - TO - Chennai - 1338 KM  
Mumbai - TO - Delhi - 1447 KM  
Mumbai - TO - Kolkata - 2014 KM

--CONSTRUCTED

-----NAME-----

Name = Oswald Octopus --CONSTRUCTED

-----DIVYAANG CONCESSION-----

Concessions Parent Class --CONSTRUCTED  
DivyaangConcession --CONSTRUCTED

-----LADIES CONCESSION-----

Concessions Parent Class --CONSTRUCTED  
LadiesConcession--CONSTRUCTED

-----SENIOR CITIZEN CONCESSION-----

Concessions Parent Class --CONSTRUCTED  
SeniorCitizenConcession --CONSTRUCTED

-----GENERAL CONCESSION-----

Concessions Parent Class --CONSTRUCTED  
GeneralConcession--CONSTRUCTED

-----DATE-----

Date = 1/Jan/2001 --CONSTRUCTED

Date = 1/Jan/2001 --CONSTRUCTED

Date = 9/Apr/2021 --CONSTRUCTED

-----CONCESSIONS-----

Concessions Parent Class --CONSTRUCTED

-----BOOKING CLASSES-----

Abstract base class Booking Classes --CONSTRUCTED  
Booking Class =  
Called From: AC 2 Tier  
Travel Class = AC 2 Tier  
: Mode: Sleeping  
: Comfort: AC  
: Bunks: 2  
: Luxury: No  
--CONSTRUCTED

```
Abstract base class Booking Classes --CONSTRUCTED
Booking Class =
Called From: AC 3 Tier
Travel Class = AC 3 Tier
: Mode: Sleeping
: Comfort: AC
: Bunks: 3
: Luxury: No
--CONSTRUCTED
```

```
Abstract base class Booking Classes --CONSTRUCTED
Booking Class =
Called From: AC First Class
Travel Class = AC First Class
: Mode: Sleeping
: Comfort: AC
: Bunks: 2
: Luxury: Yes
--CONSTRUCTED
```

```
Abstract base class Booking Classes --CONSTRUCTED
Booking Class =
Called From: AC Chair Car
Travel Class = AC Chair Car
: Mode: Sitting
: Comfort: AC
: Bunks: 0
: Luxury: No
--CONSTRUCTED
```

```
Abstract base class Booking Classes --CONSTRUCTED
Booking Class =
Called From: Sleeper
Travel Class = Sleeper
: Mode: Sleeping
: Comfort: Non-AC
```

```
: Bunks: 3
: Luxury: No
--CONSTRUCTED
```

```
Abstract base class Booking Classes --CONSTRUCTED
Booking Class =
Called From: Second Sitting
Travel Class = Second Sitting
: Mode: Sitting
: Comfort: Non-AC
: Bunks: 0
: Luxury: No
--CONSTRUCTED
```

```
Abstract base class Booking Classes --CONSTRUCTED
Booking Class =
Called From: Executive Chair Car
Travel Class = Executive Chair Car
: Mode: Sitting
: Comfort: AC
: Bunks: 0
: Luxury: Yes
--CONSTRUCTED
```

```
Abstract base class Booking Classes --CONSTRUCTED
Booking Class =
Called From: First Class
Travel Class = First Class
: Mode: Sleeping
: Comfort: Non-AC
: Bunks: 2
: Luxury: Yes
--CONSTRUCTED
```

```
-----BOOKING CATEGORY-----
```

```
Abstract Base Class Booking Category --CONSTRUCTED
```

Booking Category = Senior Citizen --CONSTRUCTED

Abstract Base Class Booking Category --CONSTRUCTED  
Booking Category = Ladies --CONSTRUCTED

Abstract Base Class Booking Category --CONSTRUCTED  
Booking Category = General --CONSTRUCTED

Abstract Base Class Booking Category --CONSTRUCTED  
Booking Category = Divyaang --CONSTRUCTED

Abstract Base Class Booking Category --CONSTRUCTED  
Booking Category = Tatkal --CONSTRUCTED

Abstract Base Class Booking Category --CONSTRUCTED  
Booking Category = Premium Tatkal --CONSTRUCTED

- **Test if all Bookings are executed correctly** **PASS**  
Bookings getting constructed have been shown below  
-----BOOKING-----

Date = 9/Apr/2022 --CONSTRUCTED  
Date = 9/Apr/2022 --DESTRUCTED  
Copy Ctor Station = Kolkata --CONSTRUCTED  
Copy Ctor Station = Delhi --CONSTRUCTED  
Copy Ctor Passenger =  
-- Passenger Details --  
Name = Oswald Octopus Voodoo  
Age = 121  
Gender = Female  
Aadhar Number = 123456789123  
Mobile Number = 0123456789  
Disability Type = Blind  
DisabilityID = e  
--CONSTRUCTED

```
Abstract Parent Class Booking  --CONSTRUCTED
Booking =
Called from: LadiesBooking
BOOKING SUCCEEDED:
-- Passenger Details --
Name = Oswald Octopus Voodoo
Age = 121
Gender = Female
Aadhar Number = 123456789123
Mobile Number = 0123456789
Disability Type = Blind
DisabilityID = e
-- Booking Details --
PNR Number = 1
From Station = Kolkata
To Station = Delhi
Travel Date = 9/Apr/2021
Reservation Date = 9/Apr/2021
Booking Category = Ladies
Travel Class = AC 2 Tier
  : Mode: Sleeping
  : Comfort: AC
  : Bunks: 2
  : Luxury: No
Fare = 2994

--CONSTRUCTED
```

```
Date = 9/Apr/2022  --CONSTRUCTED
Date = 9/Apr/2022  --DESTRUCTED
Copy Ctor Station = Delhi --CONSTRUCTED
Copy Ctor Station = Kolkata --CONSTRUCTED
Copy Ctor Passenger =
-- Passenger Details --
Name = Oswald Octopus Voodoo
Age = 121
Gender = Female
Aadhar Number = 123456789123
Mobile Number = 0123456789
Disability Type = Blind
DisabilityID = e
  --CONSTRUCTED
Abstract Parent Class Booking  --CONSTRUCTED
```



Booking =  
Called from: LadiesBooking  
BOOKING SUCCEEDED:  
-- Passenger Details --  
Name = Oswald Octopus Voodoo  
Age = 121  
Gender = Female  
Aadhar Number = 123456789123  
Mobile Number = 0123456789  
Disability Type = Blind  
DisabilityID = e  
-- Booking Details --  
PNR Number = 2  
From Station = Delhi  
To Station = Kolkata  
Travel Date = 9/Apr/2021  
Reservation Date = 9/Apr/2021  
Booking Category = Ladies  
Travel Class = AC 2 Tier  
: Mode: Sleeping  
: Comfort: AC  
: Bunks: 2  
: Luxury: No  
Fare = 2994  
  
--CONSTRUCTED

Station = Delhi --CONSTRUCTED  
Station = Mumbai --CONSTRUCTED  
Date = 9/Apr/2022 --CONSTRUCTED  
Date = 9/Apr/2022 --DESTRUCTED  
Copy Ctor Station = Mumbai --CONSTRUCTED  
Copy Ctor Station = Delhi --CONSTRUCTED  
Copy Ctor Passenger =  
-- Passenger Details --  
Name = Oswald Octopus Voodoo  
Age = 121  
Gender = Female  
Aadhar Number = 123456789123  
Mobile Number = 0123456789  
Disability Type = Blind  
DisabilityID = e  
--CONSTRUCTED

Abstract Parent Class Booking --CONSTRUCTED

Booking =

Called from: GeneralBooking

BOOKING SUCCEEDED:

-- Passenger Details --

Name = Oswald Octopus Voodoo

Age = 121

Gender = Female

Aadhar Number = 123456789123

Mobile Number = 0123456789

Disability Type = Blind

DisabilityID = e

-- Booking Details --

PNR Number = 3

From Station = Mumbai

To Station = Delhi

Travel Date = 9/Apr/2021

Reservation Date = 9/Apr/2021

Booking Category = General

Travel Class = AC 3 Tier

: Mode: Sleeping

: Comfort: AC

: Bunks: 3

: Luxury: No

Fare = 1849

--CONSTRUCTED

Station = Mumbai --DESTRUCTED

Station = Delhi --DESTRUCTED

Station = Delhi --CONSTRUCTED

Station = Mumbai --CONSTRUCTED

Date = 9/Apr/2022 --CONSTRUCTED

Date = 9/Apr/2022 --DESTRUCTED

Copy Ctor Station = Mumbai --CONSTRUCTED

Copy Ctor Station = Delhi --CONSTRUCTED

Copy Ctor Passenger =

-- Passenger Details --

Name = Oswald Octopus Voodoo

Age = 121

Gender = Female

Aadhar Number = 123456789123

Mobile Number = 0123456789

Disability Type = Blind  
DisabilityID = e  
--CONSTRUCTED  
Abstract Parent Class Booking --CONSTRUCTED  
Booking =  
Called from: GeneralBooking  
BOOKING SUCCEEDED:  
-- Passenger Details --  
Name = Oswald Octopus Voodoo  
Age = 121  
Gender = Female  
Aadhar Number = 123456789123  
Mobile Number = 0123456789  
Disability Type = Blind  
DisabilityID = e  
-- Booking Details --  
PNR Number = 4  
From Station = Mumbai  
To Station = Delhi  
Travel Date = 9/Apr/2021  
Reservation Date = 9/Apr/2021  
Booking Category = General  
Travel Class = AC First Class  
: Mode: Sleeping  
: Comfort: AC  
: Bunks: 2  
: Luxury: Yes  
Fare = 4763  
  
--CONSTRUCTED  
Station = Mumbai --DESTRUCTED  
Station = Delhi --DESTRUCTED

Station = Delhi --CONSTRUCTED  
Station = Mumbai --CONSTRUCTED  
Date = 9/Apr/2022 --CONSTRUCTED  
Date = 9/Apr/2021 --CONSTRUCTED  
Date = 9/Apr/2021 --DESTRUCTED  
Date = 9/Apr/2021 --CONSTRUCTED  
Date = 9/Apr/2021 --DESTRUCTED  
Date = 9/Apr/2021 --CONSTRUCTED  
Date = 9/Apr/2021 --DESTRUCTED  
Date = 9/Apr/2021 --CONSTRUCTED

Date = 9/Apr/2021 --DESTRUCTED  
Date = 9/Apr/2022 --DESTRUCTED  
Copy Ctor Station = Mumbai --CONSTRUCTED  
Copy Ctor Station = Delhi --CONSTRUCTED  
Copy Ctor Passenger =  
-- Passenger Details --  
Name = Oswald Octopus Voodoo  
Age = 121  
Gender = Male  
Aadhar Number = 123456789123  
Mobile Number = 0123456789  
Disability Type = Cancer Patient  
DisabilityID = f  
--CONSTRUCTED  
Abstract Parent Class Booking --CONSTRUCTED  
Booking =  
Called from: Senior CitizenBooking  
BOOKING SUCCEEDED:  
-- Passenger Details --  
Name = Oswald Octopus Voodoo  
Age = 121  
Gender = Male  
Aadhar Number = 123456789123  
Mobile Number = 0123456789  
Disability Type = Cancer Patient  
DisabilityID = f  
-- Booking Details --  
PNR Number = 5  
From Station = Mumbai  
To Station = Delhi  
Travel Date = 9/Apr/2021  
Reservation Date = 9/Apr/2021  
Booking Category = Senior Citizen  
Travel Class = AC 3 Tier  
: Mode: Sleeping  
: Comfort: AC  
: Bunks: 3  
: Luxury: No  
Fare = 1125  
  
--CONSTRUCTED  
Station = Mumbai --DESTRUCTED  
Station = Delhi --DESTRUCTED

Station = Delhi --CONSTRUCTED  
Station = Mumbai --CONSTRUCTED  
Date = 9/Apr/2022 --CONSTRUCTED  
Date = 9/Apr/2021 --CONSTRUCTED  
Date = 9/Apr/2021 --DESTRUCTED  
Date = 9/Apr/2021 --CONSTRUCTED  
Date = 9/Apr/2021 --DESTRUCTED  
Date = 9/Apr/2021 --CONSTRUCTED  
Date = 9/Apr/2021 --DESTRUCTED  
Date = 9/Apr/2021 --CONSTRUCTED  
Date = 9/Apr/2021 --DESTRUCTED  
Date = 9/Apr/2022 --DESTRUCTED  
Copy Ctor Station = Mumbai --CONSTRUCTED  
Copy Ctor Station = Delhi --CONSTRUCTED  
Copy Ctor Passenger =  
-- Passenger Details --  
Name = Oswald Octopus Voodoo  
Age = 121  
Gender = Female  
Aadhar Number = 123456789123  
Mobile Number = 0123456789  
Disability Type = Blind  
DisabilityID = e  
--CONSTRUCTED  
Abstract Parent Class Booking --CONSTRUCTED  
Booking =  
Called from: Senior CitizenBooking  
BOOKING SUCCEDED:  
-- Passenger Details --  
Name = Oswald Octopus Voodoo  
Age = 121  
Gender = Female  
Aadhar Number = 123456789123  
Mobile Number = 0123456789  
Disability Type = Blind  
DisabilityID = e  
-- Booking Details --  
PNR Number = 6  
From Station = Mumbai  
To Station = Delhi  
Travel Date = 9/Apr/2021  
Reservation Date = 9/Apr/2021  
Booking Category = Senior Citizen  
Travel Class = AC First Class

: Mode: Sleeping  
: Comfort: AC  
: Bunks: 2  
: Luxury: Yes  
Fare = 2411

--CONSTRUCTED  
Station = Mumbai --DESTRUCTED  
Station = Delhi --DESTRUCTED

Station = Delhi --CONSTRUCTED  
Station = Mumbai --CONSTRUCTED  
Date = 9/Apr/2022 --CONSTRUCTED  
Date = 9/Apr/2022 --DESTRUCTED  
Copy Ctor Station = Mumbai --CONSTRUCTED  
Copy Ctor Station = Delhi --CONSTRUCTED  
Copy Ctor Passenger =  
-- Passenger Details --  
Name = Oswald Octopus Voodoo  
Age = 121  
Gender = Female  
Aadhar Number = 123456789123  
Mobile Number = 0123456789  
Disability Type = Blind  
DisabilityID = e  
--CONSTRUCTED  
Abstract Parent Class Booking --CONSTRUCTED  
Booking =  
Called from: DivyaangBooking  
BOOKING SUCCEEDED:  
-- Passenger Details --  
Name = Oswald Octopus Voodoo  
Age = 121  
Gender = Female  
Aadhar Number = 123456789123  
Mobile Number = 0123456789  
Disability Type = Blind  
DisabilityID = e  
-- Booking Details --  
PNR Number = 7  
From Station = Mumbai  
To Station = Delhi  
Travel Date = 9/Apr/2021

Reservation Date = 9/Apr/2021  
Booking Category = Divyaang  
Travel Class = AC 3 Tier  
: Mode: Sleeping  
: Comfort: AC  
: Bunks: 3  
: Luxury: No  
Fare = 492

--CONSTRUCTED  
Station = Mumbai --DESTRUCTED  
Station = Delhi --DESTRUCTED

Station = Delhi --CONSTRUCTED  
Station = Mumbai --CONSTRUCTED  
Date = 9/Apr/2022 --CONSTRUCTED  
Date = 9/Apr/2022 --DESTRUCTED  
Copy Ctor Station = Mumbai --CONSTRUCTED  
Copy Ctor Station = Delhi --CONSTRUCTED  
Copy Ctor Passenger =  
-- Passenger Details --  
Name = Oswald Octopus Voodoo  
Age = 121  
Gender = Male  
Aadhar Number = 123456789123  
Mobile Number = 0123456789  
Disability Type = Cancer Patient  
DisabilityID = f  
--CONSTRUCTED  
Abstract Parent Class Booking --CONSTRUCTED  
Booking =  
Called from: DivyaangBooking  
BOOKING SUCCEEDED:  
-- Passenger Details --  
Name = Oswald Octopus Voodoo  
Age = 121  
Gender = Male  
Aadhar Number = 123456789123  
Mobile Number = 0123456789  
Disability Type = Cancer Patient  
DisabilityID = f  
-- Booking Details --  
PNR Number = 8

From Station = Mumbai  
To Station = Delhi  
Travel Date = 9/Apr/2021  
Reservation Date = 9/Apr/2021  
Booking Category = Divyaang  
Travel Class = AC First Class  
: Mode: Sleeping  
: Comfort: AC  
: Bunks: 2  
: Luxury: Yes  
Fare = 2411

--CONSTRUCTED  
Station = Mumbai --DESTRUCTED  
Station = Delhi --DESTRUCTED

Station = Mumbai --CONSTRUCTED  
Station = Delhi --CONSTRUCTED  
Date = 9/Apr/2022 --CONSTRUCTED  
Date = 9/Apr/2022 --DESTRUCTED  
Copy Ctor Station = Delhi --CONSTRUCTED  
Copy Ctor Station = Mumbai --CONSTRUCTED  
Copy Ctor Passenger =  
-- Passenger Details --  
Name = Oswald Octopus Voodoo  
Age = 121  
Gender = Female  
Aadhar Number = 123456789123  
Mobile Number = 0123456789  
Disability Type = Blind  
DisabilityID = e  
--CONSTRUCTED  
Abstract Parent Class Booking --CONSTRUCTED  
Booking =  
Called from: TatkalBooking  
BOOKING SUCCEEDED:  
-- Passenger Details --  
Name = Oswald Octopus Voodoo  
Age = 121  
Gender = Female  
Aadhar Number = 123456789123  
Mobile Number = 0123456789  
Disability Type = Blind



DisabilityID = e  
-- Booking Details --  
PNR Number = 9  
From Station = Delhi  
To Station = Mumbai  
Travel Date = 9/Apr/2021  
Reservation Date = 9/Apr/2021  
Booking Category = Tatkal  
Travel Class = AC 3 Tier  
: Mode: Sleeping  
: Comfort: AC  
: Bunks: 3  
: Luxury: No  
Fare = 2249

--CONSTRUCTED  
Station = Delhi --DESTRUCTED  
Station = Mumbai --DESTRUCTED

Station = Bangalore --CONSTRUCTED  
Station = Chennai --CONSTRUCTED  
Date = 9/Apr/2022 --CONSTRUCTED  
Date = 9/Apr/2022 --DESTRUCTED  
Copy Ctor Station = Chennai --CONSTRUCTED  
Copy Ctor Station = Bangalore --CONSTRUCTED  
Copy Ctor Passenger =  
-- Passenger Details --  
Name = Oswald Octopus Voodoo  
Age = 121  
Gender = Female  
Aadhar Number = 123456789123  
Mobile Number = 0123456789  
Disability Type = Blind  
DisabilityID = e  
--CONSTRUCTED  
Abstract Parent Class Booking --CONSTRUCTED  
Booking =  
Called from: TatkalBooking  
BOOKING SUCCEEDED:  
-- Passenger Details --  
Name = Oswald Octopus Voodoo  
Age = 121  
Gender = Female

Aadhar Number = 123456789123  
Mobile Number = 0123456789  
Disability Type = Blind  
DisabilityID = e  
-- Booking Details --  
PNR Number = 10  
From Station = Chennai  
To Station = Bangalore  
Travel Date = 9/Apr/2021  
Reservation Date = 9/Apr/2021  
Booking Category = Tatkal  
Travel Class = AC First Class  
: Mode: Sleeping  
: Comfort: AC  
: Bunks: 2  
: Luxury: Yes  
Fare = 1198

--CONSTRUCTED  
Station = Chennai --DESTRUCTED  
Station = Bangalore --DESTRUCTED

Station = Bangalore --CONSTRUCTED  
Station = Chennai --CONSTRUCTED  
Date = 9/Apr/2022 --CONSTRUCTED  
Date = 9/Apr/2022 --DESTRUCTED  
Copy Ctor Station = Chennai --CONSTRUCTED  
Copy Ctor Station = Bangalore --CONSTRUCTED  
Copy Ctor Passenger =

-- Passenger Details --  
Name = Oswald Octopus Voodoo  
Age = 121  
Gender = Female

Aadhar Number = 123456789123  
Mobile Number = 0123456789  
Disability Type = Blind  
DisabilityID = e

--CONSTRUCTED  
Abstract Parent Class Booking --CONSTRUCTED  
Booking =  
Called from: Premium TatkalBooking  
BOOKING SUCCEEDED:  
-- Passenger Details --

Name = Oswald Octopus Voodoo  
Age = 121  
Gender = Female  
Aadhar Number = 123456789123  
Mobile Number = 0123456789  
Disability Type = Blind  
DisabilityID = e  
-- Booking Details --  
PNR Number = 11  
From Station = Chennai  
To Station = Bangalore  
Travel Date = 9/Apr/2021  
Reservation Date = 9/Apr/2021  
Booking Category = Premium Tatkal  
Travel Class = AC First Class  
: Mode: Sleeping  
: Comfort: AC  
: Bunks: 2  
: Luxury: Yes  
Fare = 1198

--CONSTRUCTED  
Station = Chennai --DESTRUCTED  
Station = Bangalore --DESTRUCTED

Station = Mumbai --CONSTRUCTED  
Station = Delhi --CONSTRUCTED  
Date = 9/Apr/2022 --CONSTRUCTED  
Date = 9/Apr/2022 --DESTRUCTED  
Copy Ctor Station = Delhi --CONSTRUCTED  
Copy Ctor Station = Mumbai --CONSTRUCTED  
Copy Ctor Passenger =  
-- Passenger Details --  
Name = Oswald Octopus Voodoo  
Age = 121  
Gender = Female  
Aadhar Number = 123456789123  
Mobile Number = 0123456789  
Disability Type = Blind  
DisabilityID = e  
--CONSTRUCTED  
Abstract Parent Class Booking --CONSTRUCTED  
Booking =

```
Called from: Premium TatkalBooking
BOOKING SUCCEEDED:
-- Passenger Details --
Name = Oswald Octopus Voodoo
Age = 121
Gender = Female
Aadhar Number = 123456789123
Mobile Number = 0123456789
Disability Type = Blind
DisabilityID = e
-- Booking Details --
PNR Number = 12
From Station = Delhi
To Station = Mumbai
Travel Date = 9/Apr/2021
Reservation Date = 9/Apr/2021
Booking Category = Premium Tatkal
Travel Class = AC 3 Tier
: Mode: Sleeping
: Comfort: AC
: Bunks: 3
: Luxury: No
Fare = 2649

--CONSTRUCTED
Station = Delhi --DESTRUCTED
Station = Mumbai --DESTRUCTED
```

- **Test if List of Bookings is printed correctly** PASS  
List of Bookings getting Printed has been shown below  
-----LIST OF BOOKINGS-----

```
BOOKING SUCCEEDED:
-- Passenger Details --
Name = Oswald Octopus Voodoo
Age = 121
Gender = Female
Aadhar Number = 123456789123
Mobile Number = 0123456789
Disability Type = Blind
DisabilityID = e
-- Booking Details --
PNR Number = 1
From Station = Kolkata
To Station = Delhi
```

Travel Date = 9/Apr/2021  
Reservation Date = 9/Apr/2021  
Booking Category = Ladies  
Travel Class = AC 2 Tier  
: Mode: Sleeping  
: Comfort: AC  
: Bunks: 2  
: Luxury: No  
Fare = 2994

BOOKING SUCCEEDED:

-- Passenger Details --

Name = Oswald Octopus Voodoo

Age = 121

Gender = Female

Aadhar Number = 123456789123

Mobile Number = 0123456789

Disability Type = Blind

DisabilityID = e

-- Booking Details --

PNR Number = 2

From Station = Delhi

To Station = Kolkata

Travel Date = 9/Apr/2021

Reservation Date = 9/Apr/2021

Booking Category = Ladies

Travel Class = AC 2 Tier

: Mode: Sleeping

: Comfort: AC

: Bunks: 2

: Luxury: No

Fare = 2994

BOOKING SUCCEEDED:

-- Passenger Details --

Name = Oswald Octopus Voodoo

Age = 121

Gender = Female

Aadhar Number = 123456789123

Mobile Number = 0123456789

Disability Type = Blind

DisabilityID = e

-- Booking Details --

PNR Number = 3

From Station = Mumbai

To Station = Delhi  
Travel Date = 9/Apr/2021  
Reservation Date = 9/Apr/2021  
Booking Category = General  
Travel Class = AC 3 Tier  
: Mode: Sleeping  
: Comfort: AC  
: Bunks: 3  
: Luxury: No  
Fare = 1849

BOOKING SUCCEEDED:

-- Passenger Details --  
Name = Oswald Octopus Voodoo  
Age = 121  
Gender = Female  
Aadhar Number = 123456789123  
Mobile Number = 0123456789  
Disability Type = Blind  
DisabilityID = e  
-- Booking Details --  
PNR Number = 4  
From Station = Mumbai  
To Station = Delhi  
Travel Date = 9/Apr/2021  
Reservation Date = 9/Apr/2021  
Booking Category = General  
Travel Class = AC First Class  
: Mode: Sleeping  
: Comfort: AC  
: Bunks: 2  
: Luxury: Yes  
Fare = 4763

BOOKING SUCCEEDED:

-- Passenger Details --  
Name = Oswald Octopus Voodoo  
Age = 121  
Gender = Male  
Aadhar Number = 123456789123  
Mobile Number = 0123456789  
Disability Type = Cancer Patient  
DisabilityID = f  
-- Booking Details --  
PNR Number = 5

From Station = Mumbai  
To Station = Delhi  
Travel Date = 9/Apr/2021  
Reservation Date = 9/Apr/2021  
Booking Category = Senior Citizen  
Travel Class = AC 3 Tier  
: Mode: Sleeping  
: Comfort: AC  
: Bunks: 3  
: Luxury: No  
Fare = 1125

BOOKING SUCCEEDED:

-- Passenger Details --

Name = Oswald Octopus Voodoo

Age = 121

Gender = Female

Aadhar Number = 123456789123

Mobile Number = 0123456789

Disability Type = Blind

DisabilityID = e

-- Booking Details --

PNR Number = 6

From Station = Mumbai

To Station = Delhi

Travel Date = 9/Apr/2021

Reservation Date = 9/Apr/2021

Booking Category = Senior Citizen

Travel Class = AC First Class

: Mode: Sleeping

: Comfort: AC

: Bunks: 2

: Luxury: Yes

Fare = 2411

BOOKING SUCCEEDED:

-- Passenger Details --

Name = Oswald Octopus Voodoo

Age = 121

Gender = Female

Aadhar Number = 123456789123

Mobile Number = 0123456789

Disability Type = Blind

DisabilityID = e

-- Booking Details --

PNR Number = 7  
From Station = Mumbai  
To Station = Delhi  
Travel Date = 9/Apr/2021  
Reservation Date = 9/Apr/2021  
Booking Category = Divyaang  
Travel Class = AC 3 Tier  
: Mode: Sleeping  
: Comfort: AC  
: Bunks: 3  
: Luxury: No  
Fare = 492

BOOKING SUCCEEDED:

-- Passenger Details --  
Name = Oswald Octopus Voodoo  
Age = 121  
Gender = Male  
Aadhar Number = 123456789123  
Mobile Number = 0123456789  
Disability Type = Cancer Patient  
DisabilityID = f  
-- Booking Details --  
PNR Number = 8  
From Station = Mumbai  
To Station = Delhi  
Travel Date = 9/Apr/2021  
Reservation Date = 9/Apr/2021  
Booking Category = Divyaang  
Travel Class = AC First Class  
: Mode: Sleeping  
: Comfort: AC  
: Bunks: 2  
: Luxury: Yes  
Fare = 2411

BOOKING SUCCEEDED:

-- Passenger Details --  
Name = Oswald Octopus Voodoo  
Age = 121  
Gender = Female  
Aadhar Number = 123456789123  
Mobile Number = 0123456789  
Disability Type = Blind  
DisabilityID = e



-- Booking Details --

PNR Number = 9  
From Station = Delhi  
To Station = Mumbai  
Travel Date = 9/Apr/2021  
Reservation Date = 9/Apr/2021  
Booking Category = Tatkal  
Travel Class = AC 3 Tier  
: Mode: Sleeping  
: Comfort: AC  
: Bunks: 3  
: Luxury: No  
Fare = 2249

BOOKING SUCCEEDED:

-- Passenger Details --

Name = Oswald Octopus Voodoo  
Age = 121  
Gender = Female  
Aadhar Number = 123456789123  
Mobile Number = 0123456789  
Disability Type = Blind  
DisabilityID = e

-- Booking Details --

PNR Number = 10  
From Station = Chennai  
To Station = Bangalore  
Travel Date = 9/Apr/2021  
Reservation Date = 9/Apr/2021  
Booking Category = Tatkal  
Travel Class = AC First Class  
: Mode: Sleeping  
: Comfort: AC  
: Bunks: 2  
: Luxury: Yes  
Fare = 1198

BOOKING SUCCEEDED:

-- Passenger Details --

Name = Oswald Octopus Voodoo  
Age = 121  
Gender = Female  
Aadhar Number = 123456789123  
Mobile Number = 0123456789  
Disability Type = Blind

```
DisabilityID = e
-- Booking Details --
PNR Number = 11
From Station = Chennai
To Station = Bangalore
Travel Date = 9/Apr/2021
Reservation Date = 9/Apr/2021
Booking Category = Premium Tatkal
Travel Class = AC First Class
  : Mode: Sleeping
  : Comfort: AC
  : Bunks: 2
  : Luxury: Yes
Fare = 1198
```

```
BOOKING SUCCEEDED:
-- Passenger Details --
Name = Oswald Octopus Voodoo
Age = 121
Gender = Female
Aadhar Number = 123456789123
Mobile Number = 0123456789
Disability Type = Blind
DisabilityID = e
-- Booking Details --
PNR Number = 12
From Station = Delhi
To Station = Mumbai
Travel Date = 9/Apr/2021
Reservation Date = 9/Apr/2021
Booking Category = Premium Tatkal
Travel Class = AC 3 Tier
  : Mode: Sleeping
  : Comfort: AC
  : Bunks: 3
  : Luxury: No
Fare = 2649
```

- Test that program throws expected Exceptions when needed  
COVERED EXHAUSTIVELY IN UNIT TESTS  
VERDICT OF UNIT TESTS
- Test DESTRUCTOR for all valid Classes **PASS**  
(Function/Argument scope Objects were destructed before this  
phase began, as shows in the previous segments)  
Printing in reverse order of construction

Static destroyed in the end in reverse order of construction  
Output has been shown below

-----DESTRUCTORS-----

```
Date = 9/Apr/2021  --DESTRUCTED
Date = 1/Jan/2001  --DESTRUCTED
Date = 1/Jan/2001  --DESTRUCTED
Name = Oswald Octopus --DESTRUCTED
Station = Delhi --DESTRUCTED
Station = Kolkata --DESTRUCTED
Station = Kolkata --DESTRUCTED
Date = 9/Apr/2021  --DESTRUCTED
Date = 9/Apr/2021  --DESTRUCTED
Date = 3/Jun/2021  --DESTRUCTED
Passenger = -- Passenger Details --
Name = Oswald Octopus Voodoo
Age = 121
Gender = Male
Aadhar Number = 123456789123
Mobile Number = 0123456789
Disability Type = Cancer Patient
DisabilityID = f
    --DESTRUCTED
Date = 5/Jan/1900  --DESTRUCTED
Name = Oswald Octopus Voodoo --DESTRUCTED
Passenger = -- Passenger Details --
Name = Oswald Octopus Voodoo
Age = 121
Gender = Female
Aadhar Number = 123456789123
Mobile Number = 0123456789
Disability Type = Blind
DisabilityID = e
    --DESTRUCTED
Date = 5/Jan/1900  --DESTRUCTED
Name = Oswald Octopus Voodoo --DESTRUCTED
Passenger = -- Passenger Details --
Name = Oswald Octopus Voodoo
Age = 121
Gender = Female
Aadhar Number = 123456789123
Mobile Number = 0123456789
Disability Type = Blind
DisabilityID = e
```

--DESTRUCTED  
Date = 5/Jan/1900 --DESTRUCTED  
Name = Oswald Octopus Voodoo --DESTRUCTED  
Booking Category = Premium Tatkal --DESTRUCTED  
Abstract Base Class Booking Category --DESTRUCTED  
Booking Category = Tatkal --DESTRUCTED  
Abstract Base Class Booking Category --DESTRUCTED  
Booking Category = Divyaang --DESTRUCTED  
Abstract Base Class Booking Category --DESTRUCTED  
Booking Category = General --DESTRUCTED  
Abstract Base Class Booking Category --DESTRUCTED  
Booking Category = Ladies --DESTRUCTED  
Abstract Base Class Booking Category --DESTRUCTED  
Booking Category = Senior Citizen --DESTRUCTED  
Abstract Base Class Booking Category --DESTRUCTED  
Booking Class =  
Called From: First Class  
Travel Class = First Class  
: Mode: Sleeping  
: Comfort: Non-AC  
: Bunks: 2  
: Luxury: Yes  
--DESTRUCTED  
Abstract Base Class Booking Classes --DESTRUCTED  
Booking Class =  
Called From: Executive Chair Car  
Travel Class = Executive Chair Car  
: Mode: Sitting  
: Comfort: AC  
: Bunks: 0  
: Luxury: Yes  
--DESTRUCTED  
Abstract Base Class Booking Classes --DESTRUCTED  
Booking Class =  
Called From: Second Sitting  
Travel Class = Second Sitting  
: Mode: Sitting  
: Comfort: Non-AC  
: Bunks: 0  
: Luxury: No  
--DESTRUCTED  
Abstract Base Class Booking Classes --DESTRUCTED  
Booking Class =  
Called From: Sleeper  
Travel Class = Sleeper

```
: Mode: Sleeping
: Comfort: Non-AC
: Bunks: 3
: Luxury: No
--DESTRUCTED
Abstract Base Class Booking Classes  --DESTRUCTED
Booking Class =
Called From: AC Chair Car
Travel Class = AC Chair Car
: Mode: Sitting
: Comfort: AC
: Bunks: 0
: Luxury: No
--DESTRUCTED
Abstract Base Class Booking Classes  --DESTRUCTED
Booking Class =
Called From: AC First Class
Travel Class = AC First Class
: Mode: Sleeping
: Comfort: AC
: Bunks: 2
: Luxury: Yes
--DESTRUCTED
Abstract Base Class Booking Classes  --DESTRUCTED
Booking Class =
Called From: AC 3 Tier
Travel Class = AC 3 Tier
: Mode: Sleeping
: Comfort: AC
: Bunks: 3
: Luxury: No
--DESTRUCTED
Abstract Base Class Booking Classes  --DESTRUCTED
Booking Class =
Called From: AC 2 Tier
Travel Class = AC 2 Tier
: Mode: Sleeping
: Comfort: AC
: Bunks: 2
: Luxury: No
--DESTRUCTED
Abstract Base Class Booking Classes  --DESTRUCTED
Concessions Parent Class  --DESTRUCTED
GeneralConcession --DESTRUCTED
Concessions Parent Class  --DESTRUCTED
```

SeniorCitizenConcession --DESTRUCTED  
Concessions Parent Class --DESTRUCTED  
LadiesConcession --DESTRUCTED  
Concessions Parent Class --DESTRUCTED  
DivyaangConcession --DESTRUCTED  
Concessions Parent Class --DESTRUCTED  
Railways = Stations:

1. Mumbai
2. Bangalore
3. Delhi
4. Chennai
5. Kolkata

Distances between Stations:  
Bangalore - TO - Chennai - 350 KM  
Delhi - TO - Bangalore - 2150 KM  
Delhi - TO - Chennai - 2180 KM  
Delhi - TO - Kolkata - 1472 KM  
Kolkata - TO - Bangalore - 1871 KM  
Kolkata - TO - Chennai - 1659 KM  
Mumbai - TO - Bangalore - 981 KM  
Mumbai - TO - Chennai - 1338 KM  
Mumbai - TO - Delhi - 1447 KM  
Mumbai - TO - Kolkata - 2014 KM  
--DESTRUCTED

Divyaang = TB Patient --DESTRUCTED  
Abstract Base Class Divyaang --DESTRUCTED  
Divyaang = Cancer Patient --DESTRUCTED  
Abstract Base Class Divyaang --DESTRUCTED  
Divyaang = Orthopaedically Handicapped --DESTRUCTED  
Abstract Base Class Divyaang --DESTRUCTED  
Divyaang = Blind --DESTRUCTED  
Abstract Base Class Divyaang --DESTRUCTED  
Gender = FemaleDestructor  
Gender Abstract Base Class --DESTRUCTED  
Gender = MaleDestructor  
Gender Abstract Base Class --DESTRUCTED