**Classes:**

* **Person**
* **Customer**
* **Driver**
* **Vehicle**
* **Fare**
* **Log**
* **Report**

**Objects:**

|  |  |  |
| --- | --- | --- |
| ***Class:*** | ***Objects:*** | ***Name:*** |
| **Person** | - | - |
|  |  |  |
| **Customer** | Customer Object Array | customers[] |
|  |  |  |
| **Driver** | Driver 1 | dr1 |
|  | Driver 2 | dr2 |
|  | Driver 3 | dr3 |
|  | Driver 4 | dr4 |
|  | Driver 5 | dr5 |
|  | Driver 6 | dr6 |
|  | Driver Object Array | drivers[] |
|  |  |  |
| **Vehicle** | Taxi 1 | tx1 |
|  | Taxi 2 | tx2 |
|  | Taxi 3 | tx3 |
|  | Taxi 4 | tx4 |
|  | Taxi 5 | tx5 |
|  | Taxi 6 | tx6 |
|  | Bus 1 | bs1 |
|  | Bus 2 | bs1 |
|  | Minibus 1 | mb1 |
|  | Minibus 2 | mb2 |
|  | Minibus 3 | mb3 |
|  | Vehicle Object Array | vehicles[] |
|  |  |  |
| **Fare** | Fare Object Array | fares[] |
|  |  |  |
| **Log** | Log Object Array | logs[] |
|  |  |  |
| **Report** | Report | rep |

**Members:**

|  |  |  |  |
| --- | --- | --- | --- |
| ***Class:*** | ***Member:*** | ***Name:*** | ***Data Type:*** |
| **Person** | Name | fullname | string |
|  | Phone Number | phoneNum | string |
|  |  |  |  |
| **Customer** | Source | source | string |
|  | Destination | destination | string |
|  | No. of Passengers | passengerNum | unsigned short |
|  | Pick up Time | pickUpTime | string |
|  | Wheelchair Needed | wheelUse | char |
|  |  |  |  |
| **Driver** | ID Number | IDnum | string |
|  | Address | address | string |
|  | Mileage in Kilometres | mileage | float |
|  | Start Date | startDate | string |
|  | License Type | license | string |
|  | Revenue Generated | revGen | float |
|  | Driver Available | available | bool |
|  |  |  |  |
| **Vehicle** | Registration Number | regNum | string |
|  | Vehicle Type | vehType | string |
|  | Make of vehicle | make | string |
|  | Model of vehicle | model | string |
|  | Kilometres Driven | vKMdriven | float |
|  | Passenger Capacity | capacity | unsigned short |
|  | Wheelchair Access | wheelAcc | bool |
|  | Revenue Generated | vehRevGen | float |
|  | Vehicle Free | free | bool |
|  |  |  |  |
| **Fare** | Fare Number | fareNum | string |
|  | Journey Length in KM | jLength | float |
|  | Return Time | rTime | string |
|  | Fare Cost | fareCost | float |
|  | Call Out Charge | coCharge | float |
|  | Price per Kilometre | pricePerKM | float |
|  |  |  |  |

**Methods:**

|  |  |  |  |
| --- | --- | --- | --- |
| ***Class:*** | ***Method:*** | ***Parameter List:*** | ***Return Type:*** |
| **Person** | getDetails |  | void |
|  |  |  |  |
| **Customer** | getCustDetails |  | void |
|  | showLoggedCustomers |  | void |
|  |  |  |  |
| **Driver** | Driver Constructor | id, n, a, pn, kms, d, l, r, av | Driver |
|  | Driver Constructor |  | Driver |
|  |  |  |  |
| **Vehicle** | Vehicle Constructor | vT, rN, m, mod, vkms, cap, wA, vR, fr | Vehicle |
|  | Vehicle Constructor |  | Vehicle |
|  |  |  |  |
| **Fare** | getJourneyLength |  | void |
|  | checkAvailibility |  | void |
|  | getFareDetails |  | void |
|  | showCurrentFares |  | void |
|  | addDetailsToFare | fN, id, n, rN, vT, so, dest, pN, wU, jL, pT, rT | void |
|  | calcCost | journL | float |
|  |  |  |  |
| **Log** | markFarecomplete |  | void |
|  | fillLogDetails | fN, id, n, rN, vT, so, dest, pN, wU, jL, pT, rT, fC | void |
|  | showLoggedFares |  | void |
|  |  |  |  |
| **Report** | outputTitle |  | void |
|  | outputVehicleDetails |  | void |
|  | outputDriverDetails |  | void |