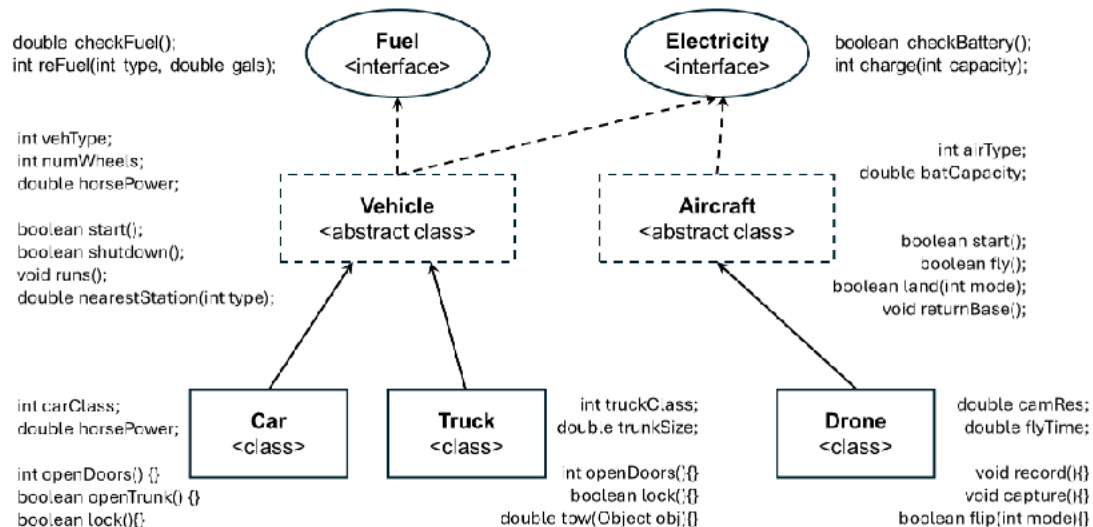## Q2

Assignment Content

📰 **Quiz_02.pdf** ∧

Page 1 of 1

COSC 237 Quiz 02

1. **[8pts] Write Java code for to complete the interfaces (1pt), abstract classes (3pts), [Car or Truck] and Drone classes (4pts) in the following model**

2. **[2pts] Write a client to test all methods in the classes.**


```
double checkFuel();                  Fuel                    Electricity          boolean checkBattery();
int reFuel(int type, double gals);   <interface>             <interface>          int charge(int capacity);


int vehType;                                                                      int airType;
int numWheels;                                                                     double batCapacity;
double horsePower;                        Vehicle                Aircraft

boolean start();                       <abstract class>       <abstract class>     boolean start();
boolean shutdown();                                                                boolean fly();
void runs();                                                                       boolean land(int mode);
double nearestStation(int type);                                                   void returnBase();


int carClass;                                          int truckClass;                        double camRes;
double horsePower;       Car          Truck            double trunkSize;         Drone        double flyTime;
                       <class>       <class>                                   <class>
int openDoors() {}                                     int openDoors(){}                      void record(){}
boolean openTrunk() {}                                 boolean lock(){}                       void capture(){}
boolean lock(){}                                       double tow(Object obj){}               boolean flip(int mode){}
```

Note: All methods are place holders and should only print out the message and the parameters. For example, checkFuel() should print out "<Object name, e.g., Car/Truck> is checking Fuel", or charge() should print out "<Object name, e.g., Car/Truck/Drone> is charging the battary of capacity <capacity>", etc.

Submission

Drag and drop files here or click to add text.

Save and Close

Submit Late