INTERFACE

Super class - Vehicle

```
public class Vehicle {
                                              Motobike has 2 wheels
   private String type;
                                              Aircraft has 3 wheels
   private int speed;
   public Vehicle(String t, int s) {
      type = t;
      speed = s;
   }
   public String getType() {
      return type;
   public int getSpeed() {
      return speed;
Interface 1 - Wheel system
public interface WheelSystem {
   public void displayTotWheel();
Interface 2 - Flight system
public interface FlightSystem {
   public void displayMaxAltitude();
Interface 3 – Engine system
public interface Engine {
   public void startEngine();
Sub class 1 – Jet Ski
public class JetSki extends Vehicle implements Engine{
   public JetSki(String t, int s) {
      super(t, s);
   }
   public void startEngine() {
      System.out.println("JetSki engine starts - vroosh...vroosh...");
}
Sub class 2 – Bicycle
public class Bicycle extends Vehicle implements WheelSystem{
   public Bicycle(String t, int s){
      super(t, s);
```

OUTPUT

```
JetSki engine starts - vroosh...vroosh...
Bicycle has 2 wheels
Motobike engine starts - vroom...vroom...
Motobike has 2 wheels
Aircraft engine starts - viuuuuu.
Aircraft has 3 wheels
Aircraft altitude is 15000m
```

```
public void displayTotWheel() {
      System.out.println("Bicycle has 2 wheels");
Sub class 3 - Motobike
public class Motobike extends Vehicle implements Engine, WheelSystem {
   public Motobike(String t, int s) {
      super(t, s);
   public void startEngine() {
      System.out.println("Motobike engine starts - vroom...vroom...");
   public void displayTotWheel() {
      System.out.println("Motobike has 2 wheels");
Sub class 3 - Aircraft
public class Aircraft extends Vehicle implements Engine, WheelSystem, FlightSystem {
   public Aircraft(String t, int s) {
      super(t, s);
   public void startEngine() {
      System.out.println("Aircraft engine starts - viuuuuu.");
   public void displayTotWheel() {
      System.out.println("Aircraft has 3 wheels");
   public void displayMaxAltitude() {
      System.out.println("Aircraft altitude is 15000m");
Super Class
public class MyTransport {
   public static void main(String args[]) {
      JetSki js = new JetSki("water", 40);
      Bicycle b = new Bicycle("land", 20);
      Motobike mb = new Motobike("land", 200);
      Aircraft a = new Aircraft("air", 1000);
      js.startEngine();
      b.displayTotWheel();
                                                                 EXERCISE
      mb.startEngine();
      mb.displayTotWheel();
                                                     Add Glider class to the program.
      a.startEngine();
                                               Glider has no engine.
      a.displayTotWheel();
                                               It has 3 wheels and maximum altitude of
      a.displayMaxAltitude();
                                               3000m.
                                                       Create a glider object and
```

display all necessary details.

vehicles that require compulsory registration. All aircrafts and

Add interface Registration to the

motorbikes require registration number.