#Answer to the question no 2 of Bongo's Android Developer written test.

```
#Problem
Explain the design pattern used in following:
interface Vehicle {
int set_num_of_wheels()
int set_num_of_passengers()
boolean has_gas()
}
a) Explain how you can use the pattern to create car and plane class?
b) Use a different design pattern for this solution.
#Question number 2(b)
#Use a different design pattern for this solution.
1.Creat Vehicle abstract class
public abstract class Vehicle {
    abstract int set_num_of_wheels();
   abstract int set_num_of_passengers();
   abstract boolean has_gas();
}
2.Creat Car Class and implement abstract Vehicle class.
package inerface.car.and.plane;
public class CarClass implements Vehicle{
     @Override
    public int set_num_of_wheels() {
                   return 4;
    }
     @Override
    public int set_num_of_passengers() {
            return 10;
    }
     @Override
    public boolean has_gas() {
         return true;
    }
}
```

3. Creat Plane Class and implement abstract Vehicle class.

```
*/
package inerface.car.and.plane;
@Override
    public int set_num_of_wheels() {
         return 8;
    }
    @Override
    public int set_num_of_passengers() {
         return 200;
    }
    @Override
    public boolean has_gas() {
         return true;
    }
}
*/
4. Creat an Object of Car and Plane class then print all function return value under
AbstractCarAndPlane class .
*/
public class AbstractCarAndPlane {
    public static void main(String[] args) {
         // TODO code application logic here
         CarClass carClass=new CarClass();
         PlaneClass planeClass=new PlaneClass();
         System.out.println("CarClass Method Return Data which i use Vehicale Abstract");
         System.out.println(carClass.set_num_of_wheels());
          System.out.println(carClass.set_num_of_passengers());
          System.out.println(carClass.has_gas());
          System.out.println("PlaneClass Method Return Data which i use Vehicale Abstract");
          System.out.println(planeClass.set_num_of_wheels());
          System.out.println(planeClass.set_num_of_passengers());
          System.out.println(planeClass.has gas());
    }
*/
```

```
#Unit test Of function.
//Test of main method, of class AbstractCarAndPlane.
     @Test
    public void testMain() {
         System.out.println("main");
         String[] args = null;
         AbstractCarAndPlane.main(args);
         // TODO review the generated test code and remove the default call to fail.
         fail("The test case is a prototype.");
    }
//Test of set_num_of_wheels method, of class Vehicle.
     @Test
    public void testSet_num_of_wheels() {
         System.out.println("set_num_of_wheels");
         Vehicle instance = new VehicleImpl();
         int expResult = 0;
         int result = instance.set_num_of_wheels();
         assertEquals(expResult, result);
         // TODO review the generated test code and remove the default call to fail.
         fail("The test case is a prototype.");
    }
//Test of set_num_of_passengers method, of class Vehicle.
     @Test
    public void testSet_num_of_passengers() {
         System.out.println("set num of passengers");
         Vehicle instance = new VehicleImpl();
         int expResult = 0;
         int result = instance.set_num_of_passengers();
         assertEquals(expResult, result);
         // TODO review the generated test code and remove the default call to fail.
         fail("The test case is a prototype.");
    }
//Test of has_gas method, of class Vehicle.
     @Test
    public void testHas_gas() {
         System.out.println("has_gas");
         Vehicle instance = new VehicleImpl();
         boolean expResult = false;
         boolean result = instance.has_gas();
         assertEquals(expResult, result);
         // TODO review the generated test code and remove the default call to fail.
         fail("The test case is a prototype.");
```

}