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#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.
#Answer to the question number 2(a)
#Write Car and Plane class and use Vehicle interface.
1.Creat Vehicle interface under InerfaceCarAndPlane class.
interface Vehicle{
    int set_num_of_wheels();
    int set_num_of_passengers();
    boolean has_gas();
}
2.Creat Car Class and implement Vehicle interface.
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 Vehicle interface.
*/
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
InerfaceCarAndPlane class.
public class InerfaceCarAndPlane{
    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 Interface");
         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 Interface");
          System.out.println(planeClass.set_num_of_wheels());
          System.out.println(planeClass.set_num_of_passengers());
          System.out.println(planeClass.has gas());
    }
}
```

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// Test of main method, of class InerfaceCarAndPlane.
 @Test
 public void testMain() {
      System.out.println("main");
      String[] args = null;
      InerfaceCarAndPlane.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.");
 }
```