

VehicleWithMassPropertyAndTank 4.5.1

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```
public class VehicleWithMassPropertyAndTank {  
  
    public static void main(String[] args) throws PatriusException {  
  
        // Using an assembly builder  
        final AssemblyBuilder builder = new AssemblyBuilder();  
  
        // Main part (for example dry mass)  
        final double dryMass = 1000.;  
        builder.addMainPart("MAIN");  
        builder.addProperty(new MassProperty(dryMass), "MAIN");  
  
        // SPECIFIC  
        // Tank part (ergols mass) ; considering centered vs the main part  
        final double ergolsMass = 100.;  
        builder.addPart("TANK", "MAIN", Transform.IDENTITY);  
        builder.addProperty(new MassProperty(ergolsMass), "TANK");  
        // SPECIFIC  
  
        // Getting the corresponding assembly  
        final Assembly assembly = builder.returnAssembly();  
  
        // Getting the corresponding mass model (useful for propagation,  
manoeuvres, ...)  
        final MassProvider mm = new MassModel(assembly);  
  
        int iPart = 0;  
        for (String name : mm.getAllPartsNames()) {  
            System.out.println("Part #" + (iPart++));  
            System.out.println("  Name : " + name);  
            System.out.println("  Mass : " + mm.getMass(name));  
        }  
  
        System.out.println("\nTotal mass: " + mm.getTotalMass());  
  
    }  
  
}
```

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