TASK _ 1

1. Create the classes:

   Car

   Engine

   Battery

2. Define the attributes for each class:

   Car:

         carModel (String)

   Engine:

         engineType (String)

   Battery:

         batteryType (String)

3. Define the service criteria for each engine and battery type:

   Engine:

         serviceCriteria (String)

   Battery:

         serviceCriteria (String)

4. Establish the relationships between the classes:

   Car has an Engine

   Car has a Battery

CLASS DIAGRAM :

```
+------------------------+
|          Car           |
+------------------------+
| - carModel: String     |
|                        |
|------------------------|
| + getCarModel(): String|
+------------------------+
            |
            | has
            |
            v
+------------------------+
|         Engine         |
+------------------------+
| - engineType: String   |
| - serviceCriteria: String |
|                        |
|------------------------|
| + getEngineType(): String |
| + getServiceCriteria(): String |
+------------------------+
            ^
            | has
            |
+------------------------+
|        Battery         |
+------------------------+
| - batteryType: String  |
| - serviceCriteria: String |
|                        |
|------------------------|
| + getBatteryType(): String |
| + getServiceCriteria(): String |
+------------------------+
```