

University of Makati

College of Computing and Information Sciences

ELEC 5 – Group Activity

**Scenario:** [INTELLITETECH] Enhanced Motor Vehicle Plate Number Coding Detector (Traffic Monitoring Application)

**Members:** Jade Daniele M. Bantilo, Ryan P. Corda, Paul Angelo Derige, Shiloh B. Eugenio

**NOTE:** This is an **ENHANCEMENT** of the previous scenario, where another variable were added to specifically identify the area with coding in a particular time of the day.

**Window Hours are from 10:01 AM to 4:59 PM**

A local government unit are currently in a process of developing a traffic management system to help them in maintaining the traffic in their city especially during peak seasons. As part of the developing team that they hired, your team were ask to proposed a feature about number coding scheme. They want the feature to be simple and easy to use with minimal variable inputs from the vehicle owner such as vehicle type, plate number, day, and time. The output should be simple as follows “Your motor vehicle with Plate No. \_\_\_\_is CODING / NOT CODING in \_\_\_\_.” Other details are as follows:

Table 1: Example 1 Variable Inputs with Sample Data

VARIABLE INPUT	SAMPLE INPUT
Vehicle Type	Honda CRV
Plate Number	DKM 1377
Day	Thursday
Time	1300
City	Pasig
OUTPUT RESULT	Motor Vehicle <b>Honda CRV</b> with Plate No. <b>DKM 1377</b> is NOT CODING in <b>Pasig</b> .

Table 2: Example 2 Variable Inputs with Sample Data

VARIABLE INPUT	SAMPLE INPUT
Vehicle Type	Toyota Camry
Plate Number	UAP 2851
Day	Monday
Time	1400
City	Makati
OUTPUT RESULT	Motor Vehicle <b>Toyota Camry</b> with Plate No. <b>UAP 2851</b> is CODING today in <b>Makati</b> .


Table 3: Example 3 Variable Inputs with Sample Data

VARIABLE INPUT	SAMPLE INPUT
Vehicle Type	Honda Bravo Motorcycle
Plate Number	DA 93600
Day	Wednesday
Time	1500
City	Pasay
OUTPUT RESULT	Motor Vehicle <b>Honda Bravo Motorcycle</b> with Plate No. <b>DA 93600</b> is EXEMPTED in coding scheme.

Rubrics (50 Total points)

Criteria	Mastery (2.5 points)	Meeting (1.5 points)	Does Not Meet (0.5 point)
Scientific Accuracy	Use of multiple variables that demonstrate understanding of environmental factors.	Use of some variables that demonstrate understanding of environmental factors.	Use of variables that fail to demonstrate understanding of environmental factors.
Coding Efficiency	Code is easy to follow and direct.	Code is mostly easy to follow and direct.	Code is convoluted and unnecessarily long.
<a href="https://forum.code.org/t/share-your-rubric-for-assessing-computer-models/2927/48">https://forum.code.org/t/share-your-rubric-for-assessing-computer-models/2927/48</a>			

NOT CODING




### TRAFFIC MONITORING APPLICATION

Enter Vehicle Type


Enter Plate Number

Select a day

Time 

Enter City

Submit →




### TRAFFIC MONITORING APPLICATION

Honda CRV


DKM 1377

Thursday

Time 09:30 am 

Pasig City


Submit →



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**Result:** Motor Vehicle Honda CRV with Plate No. DKM 1377 is NOT CODING in Pasig City.

CODING



TRAFFIC MONITORING APPLICATION

Toyota Camry


UAP 2851

Monday

Time01:34 pm🕒

Makati

Submit →




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Result:

Motor Vehicle Toyota Camry with Plate No. UAP 2851 is CODING in Makati .



EXEMPTED



TRAFFIC MONITORING APPLICATION

Honda Bravo Motorcycle

DA 93600


Wednesday

Time

12:37 pm

Pasay

Submit →



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Result:

Motor Vehicle **Honda Bravo Motorcycle** with Plate No. **DA 93600** is EXEMPTED in coding scheme.