

University of Makati

College of Computing and Information Sciences

ELEC 5 – Group Activity

Scenario: [INTELLITECH] Motor Vehicle Plate Number Coding Detector (Traffic Monitoring Application)

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 today.” 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
OUTPUT RESULT	Motor Vehicle Honda CRV with Plate No. DKM 1377 is CODING today.

Table 2: Example 2 Variable Inputs with Sample Data

VARIABLE INPUT	SAMPLE INPUT
Vehicle Type	Toyota Camry
Plate Number	UAP 2853
Day	Monday
Time	0830
OUTPUT RESULT	Motor Vehicle Toyota Camry with Plate No. UAP 2853 is NOT CODING today/during weekends.


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
OUTPUT RESULT	Motor Vehicle Honda Bravo Motorcycle with Plate No. DA 93600 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.
https://forum.code.org/t/share-your-rubric-for-assessing-computer-models/2927/48			

CODING



TRAFFIC MONITORING APPLICATION

Enter Vehicle Type


Enter Plate Number

Select a day

Time

00:00

Submit →



TRAFFIC MONITORING APPLICATION

Honda CRV


DKM1377

Thursday

Time

01:00 pm


Submit →



Back

Result: Motor Vehicle Honda CRV with Plate No. DKM 1377 is CODING today.

NOT CODING



TRAFFIC MONITORING APPLICATION

Toyota Camry


UAP 2853

Monday

08:30 am

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Submit →



Back

Result: Motor Vehicle **Toyota Camry** with Plate No. **UAP 2853** is NOT CODING today/during weekends.

EXEMPTED



TRAFFIC MONITORING APPLICATION


Honda Bravo Motorcycle

DA 93600

Wednesday

Time03:00 pm🕒

Submit →



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Result:

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

