

## PRM – Oct/Nov 2020 – P21

**1 (a)** All variables, constants and other identifiers must have meaningful names.

Name **five** variables you would use to store relevant information from the driver to calculate the percentage price change in the starting price of the car insurance.

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[3]

**(b)** Explain how you would carry out simultaneous checks for the age range and the years without insurance claim of the driver in **Task 2**.

Name the programming concept used to carry out these checks.

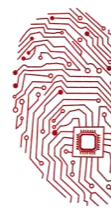
Programming concept .....

Explanation .....

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(c) Suppose the actual price of insurance at the end of **Task 2** is \$700.

State and explain the effects of adding an extra 27-year-old driver in **Task 3**. State also the new actual price.

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(d) The insurance company requires that you use the following identifiers in your code for their specific variable(s):

`engine_size`: to store the size of the engine in litres

`car_value`: to store the value of the car per \$1000

`perc_change`: to store the change in price (in percentage) from the starting price for each variable information.

Write an algorithm for **Task 1**, using **either** pseudocode **or** programming statements. Implement the use of these identifiers to their relevant corresponding data structures.

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