

# **Insurance Premium Calculator For Sky Insurance**

## **Diploma in Computer System Design Programming Fundamentals**

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## Introduction

This is a software application for calculating the monthly premium of a certain vehicle insurance policy. Calculation is done by considering vehicle type, age of the person, how old the vehicle is, additional covers taken, 'no claim' deductions.

The basic premium is calculated depending on vehicle type (car, jeep, SUV) & sum insured. Separate payments are included in the final premium for driver's age, years since vehicle was manufactured, and additional covers. A percentage amount is deducted based on whether the person has claimed money from Vehicle insurance in the past few months.

The user can input vehicle type, sum insured, age, years since manufactured, whether or not additional covers are taken and whether the person is eligible for a deduction. The Final monthly premium will be calculated and displayed along with basic premium, total premium before deduction, and deductions. The user can enter "-99" to stop calculation

## Software Application features

get_inputs –	used to get the values and store them in variables.
find_basic_premium –	calculates the basic premium considering which category the vehicle belongs to and the sum insured.
add_age_payment –	adds payment according to person's age category (<30, >=30 etc.)
add_vehicle_years_payment –	adds payment considering no. of years since vehicle was manufactured
add_additionalcover_payments –	adds payments if the additional covers are taken (Strike/riot cover, Terrorism cover)
find_deductions –	deducts a percentage value according to the no. of months the person hasn't claimed money from vehicle insurance
output_finalpremium_amount –	output final monthly premium with basic premium, amount before deductions, and deductions
display_menutext –	displays the menu for the user

## Roles and Responsibilities

Himath Welikala	- codcsd183f-005	- find_basic_premium add_additionalcover_payments
M.H.D. Kavith Maduja	- codcsd183f-006	- find_deductions display_menutext
Janith Ruberu	- codcsd183f-007	- get_inputs add_vehicle_years_payment
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## Conclusion

The software application is designed to calculate the monthly premium of an insurance policy.

The user can input the necessary values and then premium amount is calculated according to the criteria given to the program. Final premium amount is displayed to the user along with other useful data. The user can type a dummy value to exit calculation.

The software uses different functions to calculate basic premium, add separate payments as necessary, and output the calculated premium amounts.