**Q1**. Write a python program to create a dictionary that will contain information about 50 students

i) roll number

ii) vehicle number.

iii)vehicle color

iv) vehicle name

iii)Student Name

Allot vehicle space(section of a basemate, there are 10 sections) to every student , such that

All the same color vehicles will be placed in the same parking slot.Display all the details along with parking slot number.

**Q2.** Create a bill for the customer in a shopping mall based on the following condition:

1. If a person purchases more than 5000 Rs , he ll get a discount of 10% on individual items and 5% discount on total.
2. If a person purchases more than 2000 Rs but less than 5000 Rs, he ll get a discount of 5% on individual items and 2.5% discount on total.
3. If a person purchase less than 2000 Rs items, he ll only get the 5% discount in total

Bill is in the following format:

Shop name:-\_\_\_\_\_\_\_\_\_\_\_\_\_

Date\_\_\_\_\_\_\_\_ Time\_\_\_\_\_\_\_\_

Product ID Product name Quantity price Discount applied Discounted price

12K4 Rice 10kg 650/ 5% \_\_\_\_\_\_\_\_\_\_\_

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So on..

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Total

After discount price:\_\_\_\_\_

**Q3.**.In social networking ad dataset,

Apply logistic regression , knn , decision tree algorithm to know , whether a person ll buy a car or not.

Compare their accuracy , sensitivity , f-score, precision of both the algorithms and display the result of comparison in the bar plot.