

Internal Assessment 1

Series 2

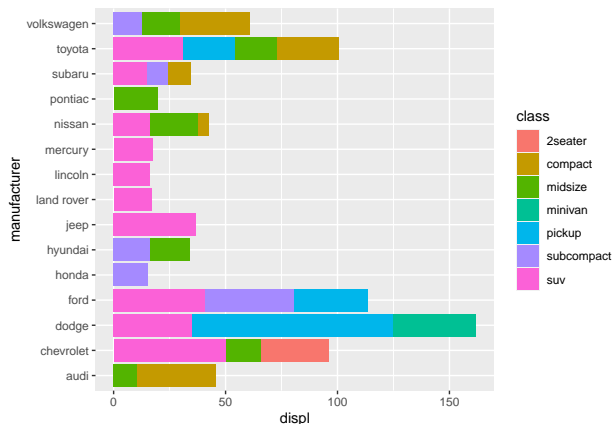
ECON03SEC1
Department of Economics
Presidency University, Kolkata
Full Marks: 30
09/11/2022

Answer the following questions: $[6 \times 5 = 30]$

1. Explain the following codes and their outputs.

```
a1 <- 12; class(a1); length(a1)
names(a1) <- 'Number'; names(a1)
```

2. Using the mpg dataset in the ggplot2 package, replicate the following plot.



3. Tidy and replicate the us_rent_income dataset in the tidyr package as given below.

```
## # A tibble: 14 x 5
##   GEOID NAME      moe income rent
##   <chr> <chr>      <dbl> <dbl> <dbl>
## 1 01 Alabama      3    NA   747
## 2 39 Ohio         2    NA   764
## 3 40 Oklahoma     3    NA   766
## 4 18 Indiana      3    NA   782
## 5 55 Wisconsin    3    NA   813
## 6 26 Michigan     3    NA   824
## 7 37 North Carolina 3    NA   844
```

##	8	42	Pennsylvania	3	NA	885
##	9	13	Georgia	3	NA	927
##	10	17	Illinois	3	NA	952
##	11	48	Texas	2	NA	952
##	12	12	Florida	3	NA	1077
##	13	36	New York	3	NA	1194
##	14	06	California	3	NA	1358

4. Which species have blue eyes in the **starwars** dataset in the **dplyr** package?
5. How many female humans are there in the **starwars** dataset in the **dplyr** package ?
6. In the **starwars** dataset in the **dplyr** package, which species has the most number of blue eye colour?