R-programming-

Ans 3). Analyze csv dataset using R

i) Working directory

```
setwd ("C:/users/Nisha")
```

ii) Read of .csv file

```
My C-read.csv ("Bus.csv")
```

iii) structure of dataset

```
str (data x)
```

(iv) head of dataset

```
head (data x)
```

v) tail of dataset

```
tail (data x)
```

vi) Minimum of dataset

```
min (data x $ Horse Power)
```

vii) Maximum of dataset

```
max (data x $ Horse Power)
```

viii) Mean of dataset

```
Mean (data x $ Horse Power)
```

ix) Median of dataset

Median (data x $ Horsepower)

x) Summary of dataset

summary (data x)

OR

Ans3 data <- read.csv ("one.csv")

Print (data)

is.data.frame (data)

Print (data $name)

Print.max.(data $ salary))

d <- subset (data, salary == 50000)

Print (d)

Ans 4- (i) Bar graph

```
ggplot (data x aes (x = Identification, y = Horsepower)
    S1 + g.eom.bar car
    (stat = \"identify")
```

(ii) line graph

```
ggplot (data x, ass (x = Identification, y = Horsepower,
    group = year, colour = years)) + geom.line csv
    geam_point ( )
```

iii) Pie chart

```
ggplot (data x, ass (y = " " fill = identification,
    x = Horsepower )) + geam.bus
    ( width = 1, stat = "identify") + coord - polar
    ("x", stat = 1)
```

(iv) scatter - Plotting chart

```
ggplot (data x, aes (x = Identification, y = Horsepower
    + geom - point( )
```

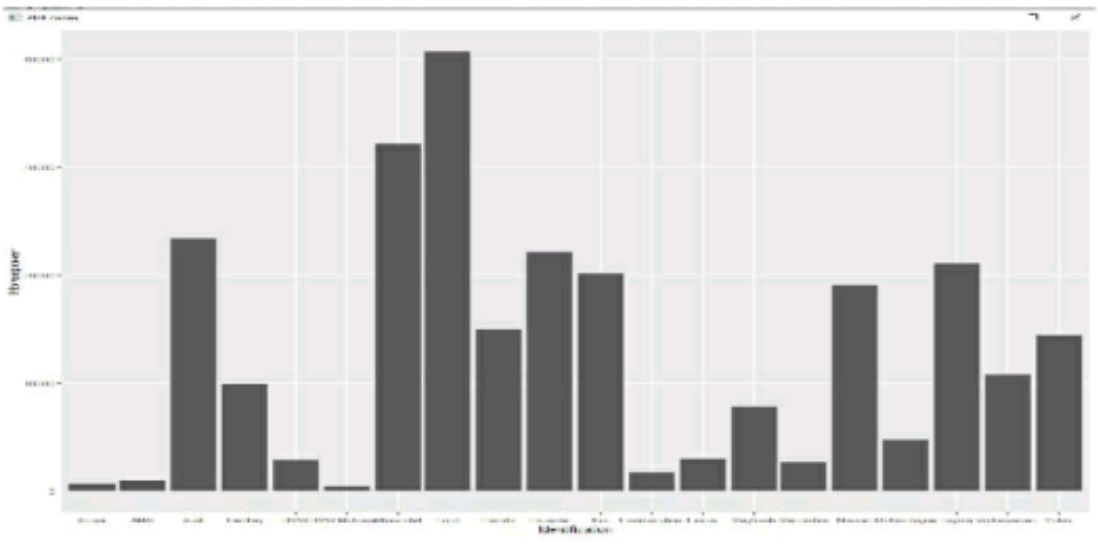
v) Box-Plot chart

```
ggplot (data = arr ( x = identification, y = Horse power)
        + geom_Boxplot ( )
```

- **Bar Graphs —**

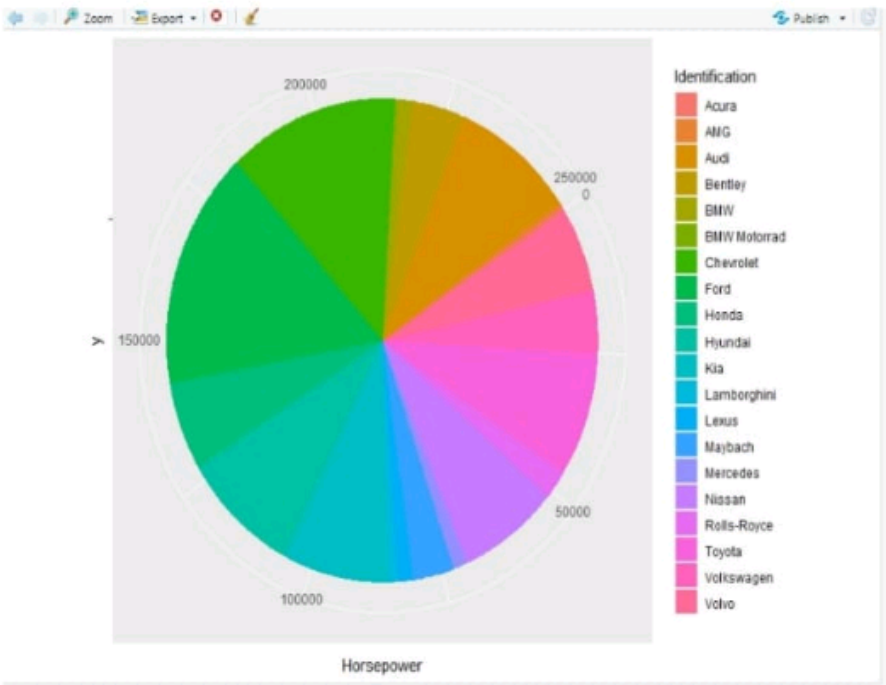
Syntax—

```
ggplot(datax ,
aes(x=Identification , y=
Horsepower )) +
geom_bar(stat =
"identity")
```



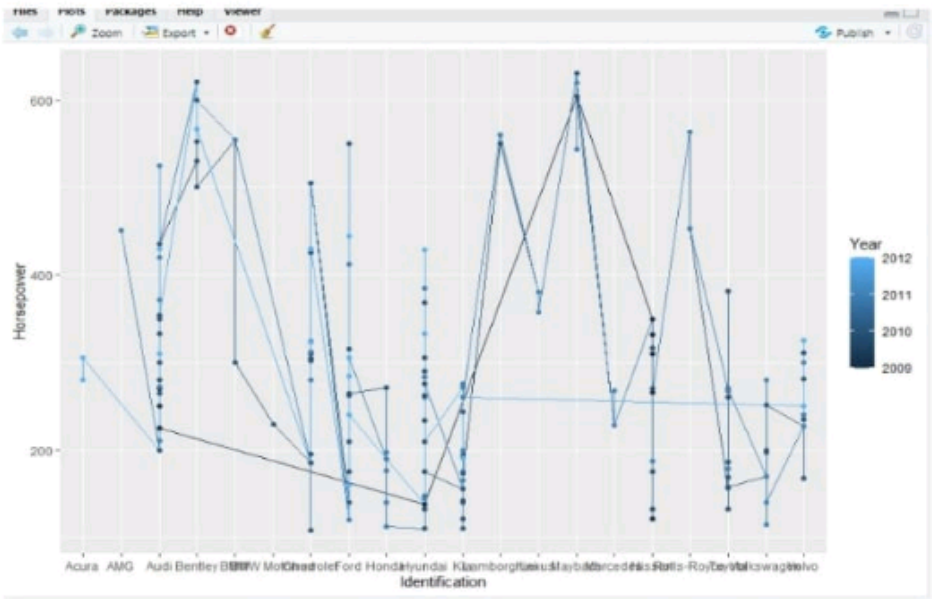
- **Pie Chart—**

Syntax: ggplot(datax , aes(y="" , fill =Identification, x = Horsepower))+geom_bar(width = 1 , stat = "identity")+coord_polar(" x" , start=1)



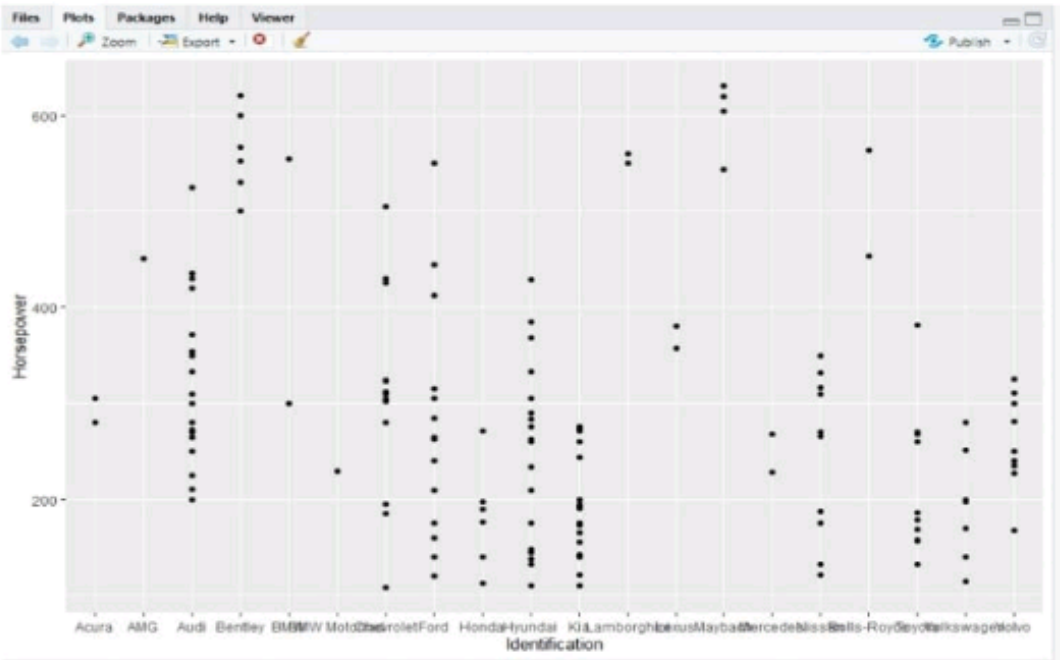
- **Line Graph—**

- **Syntax:** ggplot(datax , aes(x = Identification, y = Horsepower , group= Year, colour=Year)) +geom_line() +geom_point()



- **Scatter-Plotting Chart—**

Syntax: ggplot(datax , aes(x = Identification, y = Horsepower)) + geom_point()



- **BoxPlot Chart—**

Syntax: ggplot(datax , aes(x = Identification, y = Horsepower)) + geom_boxplot()