

IBM DATA SCIENCE MICRO INTERNSHIP REPORT

ASSIGNMENT

id	weight	bp	locality	smoking	tumour
1	20	140	urban	no	small
2	27	130	rural	yes	small
3	24	120	urban	no	large
4	22	134	urban	yes	small
5	23	100	rural	yes	large
6	25	116	rural	no	small
7	28	143	urban	yes	large

Assignment 1:

- 1) Please write the command to create dataframe in R.
- 4) Please write the command for plotting the graph between weight and bloodpressure
- 5) Please write the command for creating stacked chart between smoking and tumour.

COMMANDS

#COMMAND TO CREATE DATAFRAME

```
mydata <- data.frame(  
  id = c(1, 2, 3, 4, 5, 6, 7),  
  weight = c(20, 27, 24, 22, 23, 25, 28),  
  bp = c(140, 130, 120, 134, 100, 116, 143),  
  locality = c("urban", "rural", "urban", "urban", "rural", "rural", "urban"),  
  smoking = c("no", "yes", "no", "yes", "yes", "no", "yes"),  
  tumour = c("small", "small", "large", "small", "large", "small", "large")  
)
```

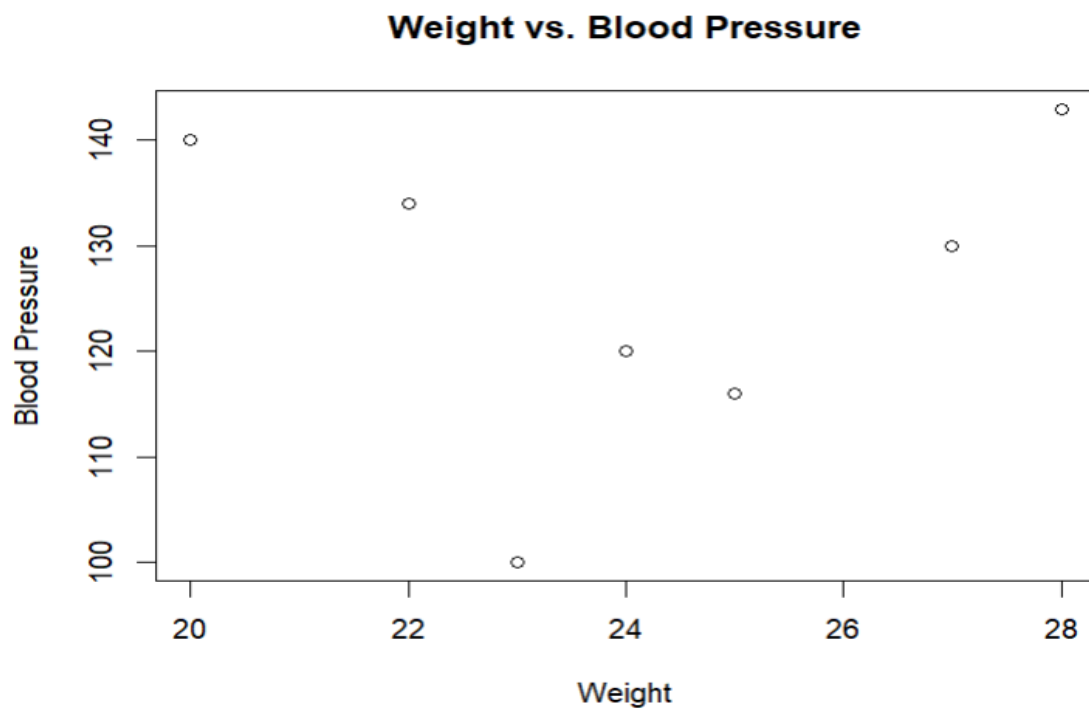
#Command for plotting the graph between weight and blood pressure

```
plot(mydata$weight, mydata$bp, xlab = "Weight", ylab = "Blood Pressure", main = "Weight vs. Blood Pressure")
```

#Command for creating stacked chart between smoking and tumour.

```
counts <- table(mydata$smoking, mydata$tumour)  
barplot(counts,  
  main = "Smoking vs. Tumour",  
  xlab = "Smoking",  
  ylab = "Count",  
  col = c("yellow", "purple"),  
  legend = rownames(counts),  
  beside = TRUE)
```

Graph between weight and blood pressure



Stacked chart between smoking and tumour.

