

## ASSIGNMENT - 1

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

1) Please write the command to create dataframe in R.

Ans:

```
df <- 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")  
)
```

2) Please write the command for plotting the graph between weight and bloodpressure

Ans:

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

3) Please write the command for creating stacked chart between smoking and tumour.

Ans:

```
table_data <- table(df$smoking, df$tumour)  
  
barplot(table_data, col = c("blue", "red"), legend = rownames(table_data), xlab = "Smoking",  
  ylab = "Count", main = "Stacked Chart of Smoking and Tumour")
```