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END TERM PRACTICAL EXAM

PMC - 103

STATISTIC DATA ANALYSIS USING R

Q3. Ans.

```
csv_data <- read.csv(file='sample.csv')
print(csv_data)
print(ncal(csv_data)
print(nrow(csv_data))
```

```
csv_data <-read.csv(file='sample.csv')
min_pro <- min(csv_data $ experiment)
print(min_pro)
```

```
csv_data <- read.csv(file='sample.csv')
new_csv <- subset(csv_data, placebo & experiment
print(new_csv)
```

```
csv_data <- read.csv(file='sample.csv')
new_csv <- subset(csv_data, placebo & experiment)
new_data <- read.csv(file='new_sample.csv')
print(new_data)
```

```
csv_data <- read.csv(file='sample.csv')
new_csv <- subset(csv_data, placebo & experiment)
write.csv(new_csv, "new_sample.csv", row.name
= FALSE)
```

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```
new_data <- read.csv(file='new_sample.csv')
print(new_data)
```

```
> summary(experiment.1)   # basic descriptive way
```

Placebo	Drug
Min : 21.00	Min : 23.00
1st Qu : 22.75	1st Qu : 24.75
Median : 25.00	Median : 26.50
Mean : 24.25	Mean : 26.17
3rd Qu : 25.25	3rd Qu : 27.50
Max : 27.00	Max : 29.00

describe(experiment.1) # another descriptive way

	var	n	mean	sd	median	trimmed	mad	min
Placebo	1	12	24.25	1.88	25	24.3	1.48	
Drug	2	12	26.17	1.85	26.5	26.2	2.22	

max	range	skew	kurtosis
26	6-0.33	-1.33	0.54
29	6-0.22	-1.33	0.53

```
> boxplot(experiment.1, main = "effect of caffiene", ylabs
  "specting Performance")
```

```
> strip chart (experiment.1, method = "jitter", jitter = 05,
  vertical = 9, add = 9
```

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```
> multi ; list (experiment.1)
```

Q4.Ans

```
library (psych)
experiment.1 <- read.clipboard()
experiment.1
summary (experiment.1)
describe (experiment.1)
boxplot (experiment.1, main = "effect of caffeine on
  a spelling test", ylab = "spelling performance")
strip chart (experiment.1, method = "jitter", jitter =
    0.05, vertical = 9, add = 9)
multi.list (experiment.1)
with (experiment.1, t.test (placebo, Drug, eq var.var=TRUE)
```

Data Set

Placebo	Drug
24	24
25	29
27	26
26	23
26	25
22	28
21	27
22	24
23	27
25	28
25	27
25	26