

```
1 #Questaiion-01
2 data <- c(90,178,547,453,189,377,264,333,289,391,320,300,210,121,154,248,292,368,423)
3
4 mean(data)
5 median(data)
6 sd(data)
7 sqrt(data)
8 sort(data, decreasing = T)
9 length(data)
10 sum(data)
11 prod(data)
12
13
14
```

8:18 (Top Level) ↕

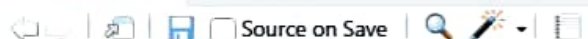
R Script

Console Terminal × Background Jobs ×

 R 4.2.1 · ~/

```
> #Questaiion-01
> data <- c(90,178,547,453,189,377,264,333,289,391,320,300,210,121,154,248,292,368,423)
>
> mean(data)
[1] 291.9474
> median(data)
[1] 292
> sd(data)
[1] 119.1602
> sqrt(data)
[1] 9.486833 13.341664 23.388031 21.283797 13.747727 19.416488 16.248077 18.248288 17.000000
[10] 19.773720 17.888544 17.320508 14.491377 11.000000 12.409674 15.748016 17.088007 19.183326
[19] 20.566964
> sort(data, decreasing = T)
[1] 547 453 423 391 377 368 333 320 300 292 289 264 248 210 189 178 154 121 90
> length(data)
[1] 19
> sum(data)
[1] 5547
> prod(data)
[1] 1.189853e+46
> |
```

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 Source on Save Run Source

```
1 #Questaiion-2
2
3 Num_of_rooms= c(12,9,14,6,10)
4 LPO= c(9,7,10,5,8)
5 df <- data.frame(Num_of_rooms,LPO)
6 df
7
8 cor(df$LPO, df$Num_of_rooms)
9 lm(Num_of_rooms ~LPO, data = df)
10 plot(LPO, Num_of_rooms)|
```

10:24 (Top Level)

R Script

Console Terminal Background Jobs

R 4.2.1 · ~/

> #Questaiion-2

>

> Num_of_rooms= c(12,9,14,6,10)

> LPO= c(9,7,10,5,8)

> df <- data.frame(Num_of_rooms,LPO)

> df

Num_of_rooms LPO

1 12 9

2 9 7

3 14 10

4 6 5

5 10 8

>

> cor(df\$LPO, df\$Num_of_rooms)

[1] 0.9941072

> lm(Num_of_rooms ~LPO, data = df)

Call:

lm(formula = Num_of_rooms ~ LPO, data = df)

Coefficients:

(Intercept) LPO

-2.027 1.568

> plot(LPO, Num_of_rooms)

> |