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```r
#Questaion-01
data <- c(90,178,547,453,189,377,264,333,289,391,320,300,210,121,154,248,292,368,423)

mean(data)
median(data)
sd(data)
sqrt(data)
sort(data, decreasing = T)
length(data)
sum(data)
prod(data)


```

8:18 (Top Level) R Scrip

Console | Terminal × | Background Jobs ×

R 4.2.1 · ~/

```
> #Questaion-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, decreasin = 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
>
```

RStudio

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```
#Questaion-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

cor(df$LPO, df$Num_of_rooms)
lm(Num_of_rooms ~LPO, data = df)
plot(LPO, Num_of_rooms)
```

10:24 (Top Level) R Script

Console Terminal Background Jobs

R 4.2.1 · ~/

```
> #Questaion-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)
>
```