Tipe 01:
NOMOR 1

```
data1= c(90,110, 105, 85, 95, 100, 105, 120, 150, 85, 100, 110, 90, 75, 105, 120, 100, 105, 90, 100)

library(BSDA)
SIGN.test(data1, md = 100, alternative = "two.sided")
```

```
> data1= c(90,110, 105, 85, 95, 100, 105, 120, 150, 85, 100, 110, 90, 75, 105, 120, 100, 105, 90, 100)
>
> library(BSDA)
> SIGN.test(data1, md = 100, alternative = "two.sided")

        One-sample Sign-Test

data:  data1
s = 9, p-value = 0.8036
alternative hypothesis: true median is not equal to 100
95 percent confidence interval:
  90.58235 105.00000
sample estimates:
median of x
       100

Achieved and Interpolated Confidence Intervals:

                  Conf.Level  L.E.pt U.E.pt
Lower Achieved CI     0.8847 95.0000    105
Interpolated CI       0.9500 90.5824    105
Upper Achieved CI     0.9586 90.0000    105
```

NOMOR 2

kal A	kal B		urut					
5.5	3.8		5.5	14				
5.6	4.8		5.6	15				
6.3	4.3		6.3	18				
4.6	4.2		4.6	7				
5.3	4		5.3	13				
5	4.9		5	10				
6.2	4.5		6.2	17				
5.8	5.2		5.8	16				
5.1	4.5		5.1	11		jumlah rank kal A		121
			3.8	1		jumlah ra rank kal E		50
			4.8	8				
			4.3	4		n1	9	
			4.2	3		n2	9	
			4	2				
			4.9	9		u1	76	
			4.5	5.5		u2	5	
			5.2	12		u	5	
			4.5	5.5				
						titik kritis	17	
						u < 17		

NOMOR 3

	A	B	C			
I	5.5	4.75	5.1			
	5.15	4.6	5.2			
II	5.6	5.5	5.4			
	5.55	5.6	5.5			
III	5.4	5.05	4.5			
	5.48	4.95	4.55			
				row mean		
	5.325	4.675	5.15	5.05		
	5.575	5.55	5.45	5.525		
	5.44	5	4.525	4.9883		
column m	5.4467	5.075	5.0417	5.1878	<- grand mean	
	1.0349					

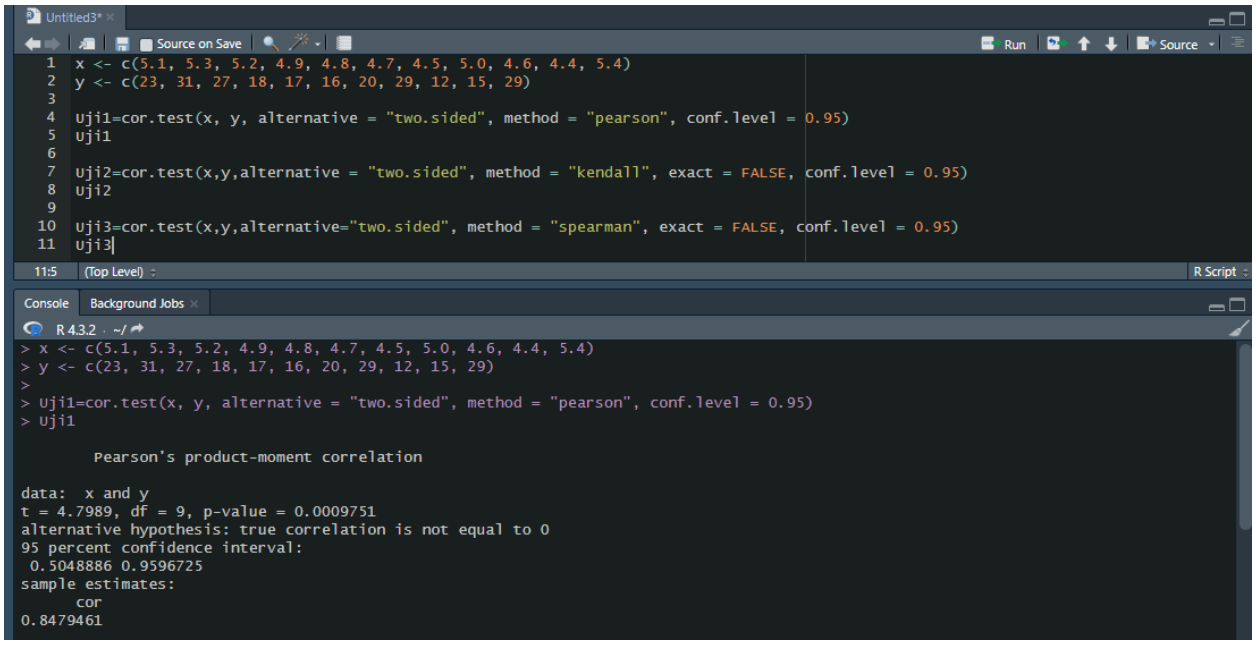
Anova: Two-Factor With Replication

SUMMARY	A	B	C	Total
I				
Count	2	2	2	6
Sum	10.65	9.35	10.3	30.3
Average	5.325	4.675	5.15	5.05
Variance	0.0612	0.0113	0.005	0.106
II				
Count	2	2	2	6
Sum	11.15	11.1	10.9	33.15
Average	5.575	5.55	5.45	5.525
Variance	0.0012	0.005	0.005	0.0057
III				
Count	2	2	2	6
Sum	10.88	10	9.05	29.93
Average	5.44	5	4.525	4.9883
Variance	0.0032	0.005	0.0012	0.1634
Total				
Count	6	6	6	
Sum	32.68	30.45	30.25	
Average	5.4467	5.075	5.0417	
Variance	0.0257	0.1608	0.1804	

ANOVA

Source of Vari	SS	df	MS	F	P-value	F crit
Sample	1.0349	2	0.5174	47.423	2E-05	4.2565
Columns	0.6065	2	0.3033	27.795	0.0001	4.2565
Interactio	0.7011	4	0.1753	16.064	0.0004	3.6331
Within	0.0982	9	0.0109			
Total	2.4407	17				

TIPE 02
NOMOR 2



```
x <- c(5.1, 5.3, 5.2, 4.9, 4.8, 4.7, 4.5, 5.0, 4.6, 4.4, 5.4)
y <- c(23, 31, 27, 18, 17, 16, 20, 29, 12, 15, 29)

Uji1=cor.test(x, y, alternative = "two.sided", method = "pearson", conf.level = 0.95)
Uji1

Uji2=cor.test(x,y,alternative = "two.sided", method = "kendall", exact = FALSE, conf.level = 0.95)
Uji2

Uji3=cor.test(x,y,alternative="two.sided", method = "spearman", exact = FALSE, conf.level = 0.95)
Uji3
```

```
> x <- c(5.1, 5.3, 5.2, 4.9, 4.8, 4.7, 4.5, 5.0, 4.6, 4.4, 5.4)
> y <- c(23, 31, 27, 18, 17, 16, 20, 29, 12, 15, 29)
>
> Uji1=cor.test(x, y, alternative = "two.sided", method = "pearson", conf.level = 0.95)
> Uji1

        Pearson's product-moment correlation

data:  x and y
t = 4.7989, df = 9, p-value = 0.0009751
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.5048886 0.9596725
sample estimates:
      cor
0.8479461
```

```
>
> Uji2=cor.test(x,y,alternative = "two.sided", method = "kendall", exact = FALSE, conf.level = 0.95)
> Uji2

        Kendall's rank correlation tau

data:  x and y
z = 2.9673, p-value = 0.003004
alternative hypothesis: true tau is not equal to 0
sample estimates:
      tau
0.6972771

>
> Uji3=cor.test(x,y,alternative="two.sided", method = "spearman", exact = FALSE, conf.level = 0.95)
> Uji3

        Spearman's rank correlation rho

data:  x and y
S = 35.58, p-value = 0.001268
alternative hypothesis: true rho is not equal to 0
sample estimates:
     rho
```

NOMOR 3
Manual