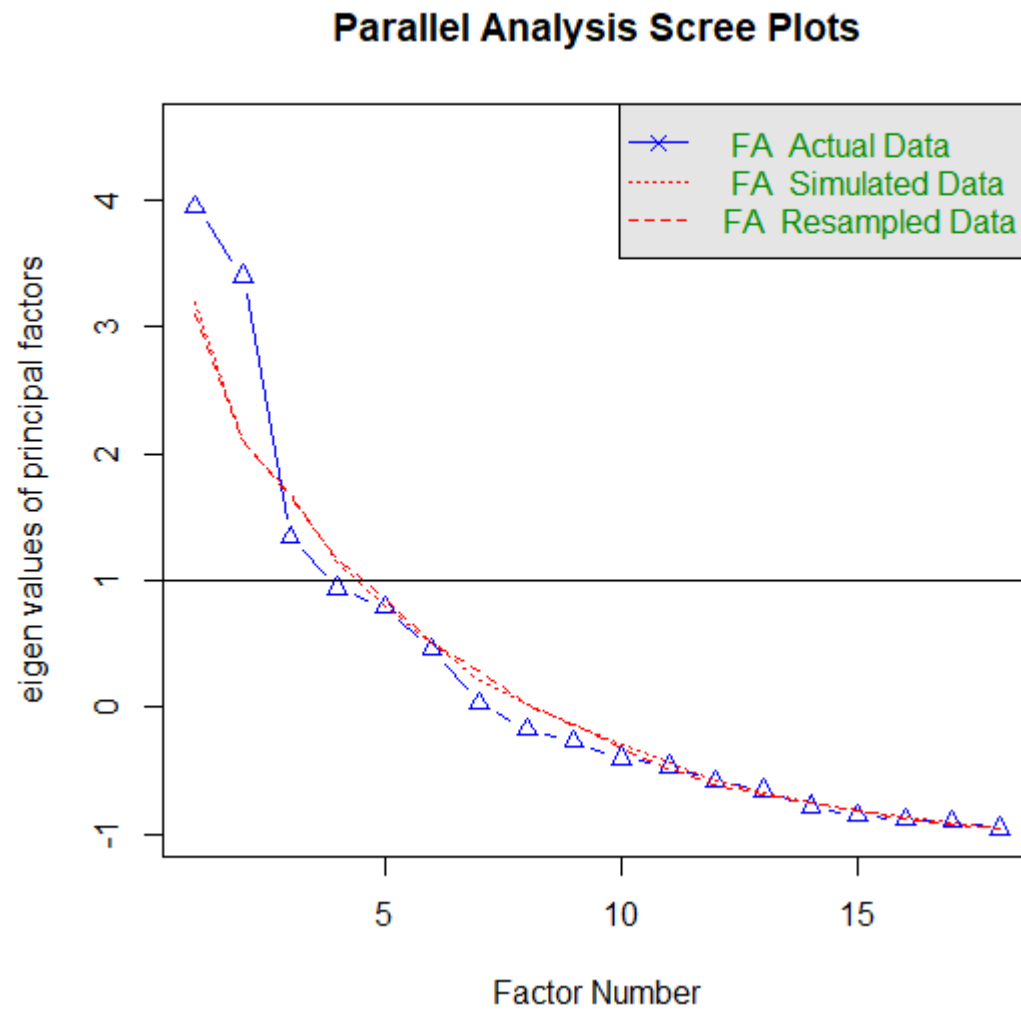


Appendices:

c) Eigen Values and Scree plot:



d) Factor Matrix:

(Screenshots of results from R)

```
> print(fit$loadings,cutoff = 0.3)
```

Loadings:

	MR1	MR2	
Frequency.of.online.shopping		0.891	
Frequency.of.in.person.shopping		-0.752	
Presence.of.incentive	0.400	0.347	
Deterrent.factor	0.522		
Ease.of.delivery	0.607	0.379	
Ease.of.access		0.466	
Consistency.of.shopping.list	0.565	0.360	
Loyalty.with.the.online.shopping.site		0.757	
Use.of.re.ordering	0.941		
Absence.of.re.ordering.as.a.deterrent.factor	0.794		
Reduction.of.impulse.buying.due.to.reordering	0.940		
Change.in.expenditure.while.shifting.to.a.new.shopping.site		0.515	
Watching.tracking.shopping.time		0.555	
Distraction.during.shopping	0.351	-0.695	
Shopping.within.limited.time.lessens.expenditure			
More.time.leads.to.more.expenditure			
Time.is.not.a.crucial.factor.affecting.expenditure		-0.411	
X.More.time.leads.to.better.shopping.experience	0.313		
	MR3		
Frequency.of.online.shopping			
Frequency.of.in.person.shopping			
Presence.of.incentive			
Deterrent.factor			
Ease.of.delivery	-0.335		
Ease.of.access			
Consistency.of.shopping.list			
Loyalty.with.the.online.shopping.site			
Use.of.re.ordering			
Absence.of.re.ordering.as.a.deterrent.factor			
Reduction.of.impulse.buying.due.to.reordering			
Change.in.expenditure.while.shifting.to.a.new.shopping.site			
Watching.tracking.shopping.time			
Distraction.during.shopping			
Shopping.within.limited.time.lessens.expenditure	0.929		
More.time.leads.to.more.expenditure	0.615		
Time.is.not.a.crucial.factor.affecting.expenditure	-0.503		
X.More.time.leads.to.better.shopping.experience			
	MR1	MR2	MR3
SS loadings	4.067	3.935	1.912
Proportion Var	0.226	0.219	0.106
Cumulative Var	0.226	0.445	0.551

After using Correlation cutoff $r > 0.5$, the factor matrix:

```
> print(fit$loadings,cutoff = 0.5)
```

```
Loadings:
```

	MR1	MR2	MR3
Frequency.of.online.shopping		0.891	
Frequency.of.in.person.shopping		-0.752	
Presence.of.incentive			
Deterrent.factor	0.522		
Ease.of.delivery	0.607		
Ease.of.access			
Consistency.of.shopping.list	0.565		
Loyalty.with.the.online.shopping.site		0.757	
Use.of.re.ordering	0.941		
Absence.of.re.ordering.as.a.deterrent.factor	0.794		
Reduction.of.impulse.buying.due.to.reordering	0.940		
Change.in.expenditure.while.shifting.to.a.new.shopping.site		0.515	
Watching.tracking.shopping.time		0.555	
Distraction.during.shopping		-0.695	
Shopping.within.limited.time.lessens.expenditure			0.929
More.time.leads.to.more.expenditure			0.615
Time.is.not.a.crucial.factor.affecting.expenditure			-0.503
X.More.time.leads.to.better.shopping.experience			

	MR1	MR2	MR3
SS loadings	4.067	3.935	1.912
Proportion Var	0.226	0.219	0.106
Cumulative Var	0.226	0.445	0.551

e) Scales and its items along with alpha value:

1.

```
>scale_onlineshopping=cbind(data$Deterrent.factor,data$Ease.of.delivery,data$Consistency.of
.shopping.list,data$Use.of.re.ordering,data$Absence.of.re.ordering.as.a.deterrent.factor,data$
Reduction.of.impulse.buying.due.to.reordering)
```

```
>alpha(scale_onlineshopping)
```

Raw alpha value: 0.86

Scale: Online Shopping

Items: Deterrent factor, Ease of delivery, Consistency of shopping list, Absence of re-ordering as a deterrent factor, Use of re-ordering, and Reduction of impulse buying due to reordering.

```
> alpha(scale_onlineshopping)
```

Reliability analysis

```
Call: alpha(x = scale_onlineshopping)
```

raw_alpha	std.alpha	G6(smc)	average_r	S/N	ase	mean	sd	median_r
0.86	0.87	0.91	0.53	6.7	0.054	4.8	1.5	0.49

lower	alpha	upper	95% confidence boundaries
0.75	0.86	0.97	

Reliability if an item is dropped:

	raw_alpha	std.alpha	G6(smc)	average_r	S/N	alpha	se	var.r	med.r
V1	0.87	0.87	0.87	0.58	6.8	0.047	0.018	0.52	
V2	0.85	0.86	0.89	0.55	6.1	0.060	0.032	0.50	
V3	0.85	0.86	0.91	0.56	6.3	0.059	0.034	0.56	
V4	0.82	0.83	0.84	0.49	4.8	0.070	0.018	0.48	
V5	0.82	0.84	0.89	0.51	5.3	0.068	0.025	0.50	
V6	0.79	0.82	0.81	0.47	4.4	0.086	0.020	0.44	

Item statistics

	n	raw.r	std.r	r.cor	r.drop	mean	sd
V1	14	0.71	0.67	0.64	0.53	4.4	2.4
V2	14	0.67	0.73	0.66	0.59	6.3	1.1
V3	14	0.67	0.71	0.61	0.56	4.8	1.4
V4	14	0.85	0.85	0.86	0.76	3.7	2.2
V5	14	0.81	0.80	0.76	0.71	4.6	2.0
V6	14	0.93	0.90	0.92	0.88	5.1	2.2

Non missing response frequency for each item

	1	2	3	4	5	6	7	miss
[1,]	0.21	0.07	0.07	0.07	0.14	0.14	0.29	0
[2,]	0.00	0.00	0.00	0.14	0.07	0.14	0.64	0
[3,]	0.00	0.07	0.14	0.21	0.07	0.50	0.00	0
[4,]	0.21	0.14	0.14	0.07	0.21	0.07	0.14	0
[5,]	0.00	0.29	0.00	0.14	0.14	0.21	0.21	0

2.

```
> scale_loyalty=cbind(data$Frequency.of.online.shopping,8-  
data$Frequency.of.in.person.shopping,data$Loyalty.with.the.online.shopping.site,data$Change  
.in.expenditure.while.shifting.to.a.new.shopping.site,data$Watching.tracking.shopping.time,8-  
data$Distraction.during.shopping)
```

```
>alpha(scale_loyalty)
```

Raw alpha value: 0.83

Scale: Loyalty

Items: Frequency of online shopping, Frequency of in-person shopping, Loyalty with the online shopping site, Change in expenditure while shifting to a new shopping site, Watching/tracking shopping time, and Distraction during shopping.

```
> alpha(scale_loyalty)

Reliability analysis
Call: alpha(x = scale_loyalty)

raw_alpha std.alpha G6(smc) average_r S/N ase mean sd median_r
0.83      0.84      0.9      0.46 5.2 0.072 4.1 1.3 0.46

lower alpha upper      95% confidence boundaries
0.69 0.83 0.97

Reliability if an item is dropped:
raw_alpha std.alpha G6(smc) average_r S/N alpha se var.r med.r
V1      0.78      0.79      0.86      0.42 3.7 0.095 0.040 0.43
V2      0.82      0.83      0.85      0.49 4.8 0.076 0.027 0.51
V3      0.79      0.80      0.88      0.44 3.9 0.093 0.039 0.45
V4      0.82      0.82      0.83      0.48 4.7 0.079 0.028 0.48
V5      0.83      0.84      0.87      0.51 5.2 0.075 0.039 0.54
V6      0.79      0.80      0.84      0.45 4.0 0.092 0.033 0.45

Item statistics
n raw.r std.r r.cor r.drop mean sd
V1 14 0.83 0.84 0.81 0.74 4.7 1.7
V2 14 0.68 0.69 0.66 0.52 2.7 1.8
V3 14 0.79 0.80 0.75 0.70 5.2 1.6
V4 14 0.72 0.70 0.68 0.56 4.1 2.1
V5 14 0.65 0.65 0.58 0.49 4.1 1.9
V6 14 0.79 0.78 0.76 0.67 3.8 1.9

Non missing response frequency for each item
1 2 3 4 5 6 7 miss
[1,] 0.00 0.07 0.21 0.21 0.14 0.14 0.21 0
[2,] 0.36 0.21 0.14 0.00 0.21 0.07 0.00 0
[3,] 0.00 0.00 0.29 0.00 0.14 0.36 0.21 0
[4,] 0.07 0.14 0.36 0.00 0.14 0.07 0.21 0
[5,] 0.07 0.14 0.14 0.36 0.00 0.14 0.14 0
```

3.

```
> scale_shoppingtime =
cbind(data$Shopping.within.limited.time.lessens.expenditure,data$More.time.leads.to.more.e
xpenditure,data$Time.is.not.a.crucial.factor.affecting.expenditure)
> alpha(scale_shoppingtime)
```

Raw alpha value: 0.66

Scale: shopping time

Items: Shopping within limited time lessens expenditure, More time leads to more expenditure, and Time is not a crucial factor affecting expenditure.

```
> scale_shoppingtime = cbind(data$Shopping.within.limited.time.lessens.expenditure,data$More.time.leads.to.more.expenditure,8-da$
> alpha(scale_shoppingtime)

Reliability analysis
Call: alpha(x = scale_shoppingtime)

raw_alpha std.alpha G6(smc) average_r S/N ase mean sd median_r
0.66      0.68      0.6      0.41 2.1 0.16 4.9 1.5      0.43

lower alpha upper      95% confidence boundaries
0.36 0.66 0.97

Reliability if an item is dropped:
raw_alpha std.alpha G6(smc) average_r S/N alpha se var.r med.r
V1      0.44      0.45      0.29      0.29 0.81      0.29      NA      0.29
V2      0.60      0.61      0.43      0.43 1.54      0.21      NA      0.43
V3      0.65      0.68      0.51      0.51 2.11      0.17      NA      0.51

Item statistics
n raw.r std.r r.cor r.drop mean sd
V1 14 0.80 0.83 0.72 0.59 5.5 1.7
V2 14 0.82 0.77 0.59 0.47 4.1 2.4
V3 14 0.71 0.74 0.51 0.40 5.1 1.9

Non missing response frequency for each item
1 2 3 4 5 6 7 miss
[1,] 0.07 0.00 0.07 0.00 0.21 0.36 0.29 0
[2,] 0.29 0.00 0.07 0.14 0.14 0.14 0.21 0
[3,] 0.07 0.07 0.00 0.14 0.21 0.21 0.29 0
```