

Assignment

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R Markdown

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When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
getwd()
```

```
setwd("C:/Users/Ananth/OneDrive/Desktop/MSBA Kent/Fall 2021/Fundamentals of Machine Learning/sseetham_64060")
```

I have downloaded the data from online website.

```
Assign <-read.csv("Book2.csv")
Assign
```

##	Region	Country
## 1	Australia and Oceania	Tuvalu
## 2	Central America and the Caribbean	Grenada
## 3	Europe	Russia
## 4	Sub-Saharan Africa	Sao Tome and Principe
## 5	Sub-Saharan Africa	Rwanda
## 6	Australia and Oceania	Solomon Islands
## 7	Sub-Saharan Africa	Angola
## 8	Sub-Saharan Africa	Burkina Faso
## 9	Sub-Saharan Africa	Republic of the Congo
## 10	Sub-Saharan Africa	Senegal
## 11	Asia	Kyrgyzstan
## 12	Sub-Saharan Africa	Cape Verde
## 13	Asia	Bangladesh
## 14	Central America and the Caribbean	Honduras
## 15	Asia	Mongolia
## 16	Europe	Bulgaria
## 17	Asia	Sri Lanka
## 18	Sub-Saharan Africa	Cameroon
## 19	Asia	Turkmenistan
## 20	Australia and Oceania	East Timor
## 21	Europe	Norway
## 22	Europe	Portugal
## 23	Central America and the Caribbean	Honduras
## 24	Australia and Oceania	New Zealand

## 25	Europe	Moldova
## 26	Europe	France
## 27	Australia and Oceania	Kiribati
## 28	Sub-Saharan Africa	Mali
## 29	Europe	Norway
## 30	Sub-Saharan Africa	The Gambia
## 31	Europe	Switzerland
## 32	Sub-Saharan Africa	South Sudan
## 33	Australia and Oceania	Australia
## 34	Asia	Myanmar
## 35	Sub-Saharan Africa	Djibouti
## 36	Central America and the Caribbean	Costa Rica
## 37	Middle East and North Africa	Syria
## 38	Sub-Saharan Africa	The Gambia
## 39	Asia	Brunei
## 40	Europe	Bulgaria
## 41	Sub-Saharan Africa	Niger
## 42	Middle East and North Africa	Azerbaijan
## 43	Sub-Saharan Africa	The Gambia
## 44	Europe	Slovakia
## 45	Asia	Myanmar
## 46	Sub-Saharan Africa	Comoros
## 47	Europe	Iceland
## 48	Europe	Switzerland
## 49	Europe	Macedonia
## 50	Sub-Saharan Africa	Mauritania
## 51	Europe	Albania
## 52	Sub-Saharan Africa	Lesotho
## 53	Middle East and North Africa	Saudi Arabia
## 54	Sub-Saharan Africa	Sierra Leone
## 55	Sub-Saharan Africa	Sao Tome and Principe
## 56	Sub-Saharan Africa	Cote d'Ivoire
## 57	Australia and Oceania	Fiji
## 58	Europe	Austria
## 59	Europe	United Kingdom
## 60	Sub-Saharan Africa	Djibouti
## 61	Australia and Oceania	Australia
## 62	Europe	San Marino
## 63	Sub-Saharan Africa	Cameroon
## 64	Middle East and North Africa	Libya
## 65	Central America and the Caribbean	Haiti
## 66	Sub-Saharan Africa	Rwanda
## 67	Sub-Saharan Africa	Gabon
## 68	Central America and the Caribbean	Belize
## 69	Europe	Lithuania
## 70	Sub-Saharan Africa	Madagascar
## 71	Asia	Turkmenistan
## 72	Middle East and North Africa	Libya
## 73	Sub-Saharan Africa	Democratic Republic of the Congo
## 74	Sub-Saharan Africa	Djibouti
## 75	Middle East and North Africa	Pakistan
## 76	North America	Mexico
## 77	Australia and Oceania	Federated States of Micronesia
## 78	Asia	Laos

## 79	Europe	Monaco			
## 80	Australia and Oceania	Samoa			
## 81	Europe	Spain			
## 82	Middle East and North Africa	Lebanon			
## 83	Middle East and North Africa	Iran			
## 84	Sub-Saharan Africa	Zambia			
## 85	Sub-Saharan Africa	Kenya			
## 86	North America	Mexico			
## 87	Sub-Saharan Africa	Sao Tome and Principe			
## 88	Sub-Saharan Africa	The Gambia			
## 89	Middle East and North Africa	Kuwait			
## 90	Europe	Slovenia			
## 91	Sub-Saharan Africa	Sierra Leone			
## 92	Australia and Oceania	Australia			
## 93	Middle East and North Africa	Azerbaijan			
## 94	Europe	Romania			
## 95	Central America and the Caribbean	Nicaragua			
## 96	Sub-Saharan Africa	Mali			
## 97	Asia	Malaysia			
## 98	Sub-Saharan Africa	Sierra Leone			
## 99	North America	Mexico			
## 100	Sub-Saharan Africa	Mozambique			
##	Item.Type	Sales.Channel	Order.Priority	Order.Date	Order.ID
## 1	Baby Food	Offline	H	5/28/2010	669165933
## 2	Cereal	Online	C	8/22/2012	963881480
## 3	Office Supplies	Offline	L	05-02-2014	341417157
## 4	Fruits	Online	C	6/20/2014	514321792
## 5	Office Supplies	Offline	L	02-01-2013	115456712
## 6	Baby Food	Online	C	02-04-2015	547995746
## 7	Household	Offline	M	4/23/2011	135425221
## 8	Vegetables	Online	H	7/17/2012	871543967
## 9	Personal Care	Offline	M	7/14/2015	770463311
## 10	Cereal	Online	H	4/18/2014	616607081
## 11	Vegetables	Online	H	6/24/2011	814711606
## 12	Clothes	Offline	H	08-02-2014	939825713
## 13	Clothes	Online	L	1/13/2017	187310731
## 14	Household	Offline	H	02-08-2017	522840487
## 15	Personal Care	Offline	C	2/19/2014	832401311
## 16	Clothes	Online	M	4/23/2012	972292029
## 17	Cosmetics	Offline	M	11/19/2016	419123971
## 18	Beverages	Offline	C	04-01-2015	519820964
## 19	Household	Offline	L	12/30/2010	441619336
## 20	Meat	Online	L	7/31/2012	322067916
## 21	Baby Food	Online	L	5/14/2014	819028031
## 22	Baby Food	Online	H	7/31/2015	860673511
## 23	Snacks	Online	L	6/30/2016	795490682
## 24	Fruits	Online	H	09-08-2014	142278373
## 25	Personal Care	Online	L	05-07-2016	740147912
## 26	Cosmetics	Online	H	5/22/2017	898523128
## 27	Fruits	Online	M	10/13/2014	347140347
## 28	Fruits	Online	L	05-07-2010	686048400
## 29	Beverages	Offline	C	7/18/2014	435608613
## 30	Household	Offline	L	5/26/2012	886494815
## 31	Cosmetics	Offline	M	9/17/2012	249693334

## 32	Personal Care	Offline	C 12/29/2013	406502997
## 33	Office Supplies	Online	C 10/27/2015	158535134
## 34	Household	Offline	H 1/16/2015	177713572
## 35	Snacks	Online	M 2/25/2017	756274640
## 36	Personal Care	Offline	L 05-08-2017	456767165
## 37	Fruits	Online	L 11/22/2011	162052476
## 38	Meat	Online	M 1/14/2017	825304400
## 39	Office Supplies	Online	L 04-01-2012	320009267
## 40	Office Supplies	Online	M 2/16/2012	189965903
## 41	Personal Care	Online	H 03-11-2017	699285638
## 42	Cosmetics	Online	M 02-06-2010	382392299
## 43	Cereal	Offline	H 06-07-2012	994022214
## 44	Vegetables	Online	H 10-06-2012	759224212
## 45	Clothes	Online	H 11/14/2015	223359620
## 46	Cereal	Offline	H 3/29/2016	902102267
## 47	Cosmetics	Online	C 12/31/2016	331438481
## 48	Personal Care	Online	M 12/23/2010	617667090
## 49	Clothes	Offline	C 10/14/2014	787399423
## 50	Office Supplies	Offline	C 01-11-2012	837559306
## 51	Clothes	Online	C 02-02-2010	385383069
## 52	Fruits	Online	L 8/18/2013	918419539
## 53	Cereal	Online	M 3/25/2013	844530045
## 54	Office Supplies	Offline	M 11/26/2011	441888415
## 55	Fruits	Offline	H 9/17/2013	508980977
## 56	Clothes	Online	C 06-08-2012	114606559
## 57	Clothes	Offline	C 6/30/2010	647876489
## 58	Cosmetics	Offline	H 2/23/2015	868214595
## 59	Household	Online	L 01-05-2012	955357205
## 60	Cosmetics	Offline	H 04-07-2014	259353148
## 61	Cereal	Offline	H 06-09-2013	450563752
## 62	Baby Food	Online	L 6/26/2013	569662845
## 63	Office Supplies	Online	M 11-07-2011	177636754
## 64	Clothes	Offline	H 10/30/2010	705784308
## 65	Cosmetics	Offline	H 10/13/2013	505716836
## 66	Cosmetics	Offline	H 10-11-2013	699358165
## 67	Personal Care	Offline	L 07-08-2012	228944623
## 68	Clothes	Offline	M 7/25/2016	807025039
## 69	Office Supplies	Offline	H 10/24/2010	166460740
## 70	Clothes	Offline	L 4/25/2015	610425555
## 71	Office Supplies	Online	M 4/23/2013	462405812
## 72	Fruits	Online	L 8/14/2015	816200339
## 73	Beverages	Online	C 5/26/2011	585920464
## 74	Cereal	Online	H 5/20/2017	555990016
## 75	Cosmetics	Offline	L 07-05-2013	231145322
## 76	Household	Offline	C 11-06-2014	986435210
## 77	Beverages	Online	C 10/28/2014	217221009
## 78	Vegetables	Offline	C 9/15/2011	789176547
## 79	Baby Food	Offline	H 5/29/2012	688288152
## 80	Cosmetics	Online	H 7/20/2013	670854651
## 81	Household	Offline	L 10/21/2012	213487374
## 82	Clothes	Online	L 9/18/2012	663110148
## 83	Cosmetics	Online	H 11/15/2016	286959302
## 84	Snacks	Online	L 01-04-2011	122583663
## 85	Vegetables	Online	L 3/18/2012	827844560

## 86	Personal Care	Offline	L	2/17/2012	430915820		
## 87	Beverages	Offline	C	1/16/2011	180283772		
## 88	Baby Food	Offline	M	02-03-2014	494747245		
## 89	Fruits	Online	M	4/30/2012	513417565		
## 90	Beverages	Offline	C	10/23/2016	345718562		
## 91	Office Supplies	Offline	H	12-06-2016	621386563		
## 92	Beverages	Offline	H	07-07-2014	240470397		
## 93	Office Supplies	Online	M	6/13/2012	423331391		
## 94	Cosmetics	Online	H	11/26/2010	660643374		
## 95	Beverages	Offline	C	02-08-2011	963392674		
## 96	Clothes	Online	M	7/26/2011	512878119		
## 97	Fruits	Offline	L	11-11-2011	810711038		
## 98	Vegetables	Offline	C	06-01-2016	728815257		
## 99	Personal Care	Offline	M	7/30/2015	559427106		
## 100	Household	Offline	L	02-10-2012	665095412		
##	Ship.Date	Units.Sold	Unit.Price	Unit.Cost	Total.Revenue	Total.Cost	
## 1	6/27/2010	9925	255.28	159.42	2533654.00	1582243.50	
## 2	9/15/2012	2804	205.70	117.11	576782.80	328376.44	
## 3	05-08-2014	1779	651.21	524.96	1158502.59	933903.84	
## 4	07-05-2014	8102	9.33	6.92	75591.66	56065.84	
## 5	02-06-2013	5062	651.21	524.96	3296425.02	2657347.52	
## 6	2/21/2015	2974	255.28	159.42	759202.72	474115.08	
## 7	4/27/2011	4187	668.27	502.54	2798046.49	2104134.98	
## 8	7/27/2012	8082	154.06	90.93	1245112.92	734896.26	
## 9	8/25/2015	6070	81.73	56.67	496101.10	343986.90	
## 10	5/30/2014	6593	205.70	117.11	1356180.10	772106.23	
## 11	07-12-2011	124	154.06	90.93	19103.44	11275.32	
## 12	8/19/2014	4168	109.28	35.84	455479.04	149381.12	
## 13	03-01-2017	8263	109.28	35.84	902980.64	296145.92	
## 14	2/13/2017	8974	668.27	502.54	5997054.98	4509793.96	
## 15	2/23/2014	4901	81.73	56.67	400558.73	277739.67	
## 16	06-03-2012	1673	109.28	35.84	182825.44	59960.32	
## 17	12/18/2016	6952	437.20	263.33	3039414.40	1830670.16	
## 18	4/18/2015	5430	47.45	31.79	257653.50	172619.70	
## 19	1/20/2011	3830	668.27	502.54	2559474.10	1924728.20	
## 20	09-11-2012	5908	421.89	364.69	2492526.12	2154588.52	
## 21	6/28/2014	7450	255.28	159.42	1901836.00	1187679.00	
## 22	09-03-2015	1273	255.28	159.42	324971.44	202941.66	
## 23	7/26/2016	2225	152.58	97.44	339490.50	216804.00	
## 24	10-04-2014	2187	9.33	6.92	20404.71	15134.04	
## 25	05-10-2016	5070	81.73	56.67	414371.10	287316.90	
## 26	06-05-2017	1815	437.20	263.33	793518.00	477943.95	
## 27	11-10-2014	5398	9.33	6.92	50363.34	37354.16	
## 28	05-10-2010	5822	9.33	6.92	54319.26	40288.24	
## 29	7/30/2014	5124	47.45	31.79	243133.80	162891.96	
## 30	06-09-2012	2370	668.27	502.54	1583799.90	1191019.80	
## 31	10/20/2012	8661	437.20	263.33	3786589.20	2280701.13	
## 32	1/28/2014	2125	81.73	56.67	173676.25	120423.75	
## 33	11/25/2015	2924	651.21	524.96	1904138.04	1534983.04	
## 34	03-01-2015	8250	668.27	502.54	5513227.50	4145955.00	
## 35	2/25/2017	7327	152.58	97.44	1117953.66	713942.88	
## 36	5/21/2017	6409	81.73	56.67	523807.57	363198.03	
## 37	12-03-2011	3784	9.33	6.92	35304.72	26185.28	
## 38	1/23/2017	4767	421.89	364.69	2011149.63	1738477.23	

## 39	05-08-2012	6708	651.21	524.96	4368316.68	3521431.68
## 40	2/28/2012	3987	651.21	524.96	2596374.27	2093015.52
## 41	3/28/2017	3015	81.73	56.67	246415.95	170860.05
## 42	2/25/2010	7234	437.20	263.33	3162704.80	1904929.22
## 43	06-08-2012	2117	205.70	117.11	435466.90	247921.87
## 44	11-10-2012	171	154.06	90.93	26344.26	15549.03
## 45	11/18/2015	5930	109.28	35.84	648030.40	212531.20
## 46	4/29/2016	962	205.70	117.11	197883.40	112659.82
## 47	12/31/2016	8867	437.20	263.33	3876652.40	2334947.11
## 48	1/31/2011	273	81.73	56.67	22312.29	15470.91
## 49	11/14/2014	7842	109.28	35.84	856973.76	281057.28
## 50	1/13/2012	1266	651.21	524.96	824431.86	664599.36
## 51	3/18/2010	2269	109.28	35.84	247956.32	81320.96
## 52	9/18/2013	9606	9.33	6.92	89623.98	66473.52
## 53	3/28/2013	4063	205.70	117.11	835759.10	475817.93
## 54	01-07-2012	3457	651.21	524.96	2251232.97	1814786.72
## 55	10/24/2013	7637	9.33	6.92	71253.21	52848.04
## 56	6/27/2012	3482	109.28	35.84	380512.96	124794.88
## 57	08-01-2010	9905	109.28	35.84	1082418.40	354995.20
## 58	03-02-2015	2847	437.20	263.33	1244708.40	749700.51
## 59	2/14/2012	282	668.27	502.54	188452.14	141716.28
## 60	4/19/2014	7215	437.20	263.33	3154398.00	1899925.95
## 61	07-02-2013	682	205.70	117.11	140287.40	79869.02
## 62	07-01-2013	4750	255.28	159.42	1212580.00	757245.00
## 63	11/15/2011	5518	651.21	524.96	3593376.78	2896729.28
## 64	11/17/2010	6116	109.28	35.84	668356.48	219197.44
## 65	11/16/2013	1705	437.20	263.33	745426.00	448977.65
## 66	11/25/2013	4477	437.20	263.33	1957344.40	1178928.41
## 67	07-09-2012	8656	81.73	56.67	707454.88	490535.52
## 68	09-07-2016	5498	109.28	35.84	600821.44	197048.32
## 69	11/17/2010	8287	651.21	524.96	5396577.27	4350343.52
## 70	5/28/2015	7342	109.28	35.84	802333.76	263137.28
## 71	5/20/2013	5010	651.21	524.96	3262562.10	2630049.60
## 72	9/30/2015	673	9.33	6.92	6279.09	4657.16
## 73	7/15/2011	5741	47.45	31.79	272410.45	182506.39
## 74	6/17/2017	8656	205.70	117.11	1780539.20	1013704.16
## 75	8/16/2013	9892	437.20	263.33	4324782.40	2604860.36
## 76	12-12-2014	6954	668.27	502.54	4647149.58	3494663.16
## 77	11/15/2014	9379	47.45	31.79	445033.55	298158.41
## 78	10/23/2011	3732	154.06	90.93	574951.92	339350.76
## 79	06-02-2012	8614	255.28	159.42	2198981.92	1373243.88
## 80	08-07-2013	9654	437.20	263.33	4220728.80	2542187.82
## 81	11/30/2012	4513	668.27	502.54	3015902.51	2267963.02
## 82	10-08-2012	7884	109.28	35.84	861563.52	282562.56
## 83	12-08-2016	6489	437.20	263.33	2836990.80	1708748.37
## 84	01-05-2011	4085	152.58	97.44	623289.30	398042.40
## 85	04-07-2012	6457	154.06	90.93	994765.42	587135.01
## 86	3/20/2012	6422	81.73	56.67	524870.06	363934.74
## 87	1/21/2011	8829	47.45	31.79	418936.05	280673.91
## 88	3/20/2014	5559	255.28	159.42	1419101.52	886215.78
## 89	5/18/2012	522	9.33	6.92	4870.26	3612.24
## 90	11/25/2016	4660	47.45	31.79	221117.00	148141.40
## 91	12/14/2016	948	651.21	524.96	617347.08	497662.08
## 92	07-11-2014	9389	47.45	31.79	445508.05	298476.31

## 93	7/24/2012	2021	651.21	524.96	1316095.41	1060944.16
## 94	12/25/2010	7910	437.20	263.33	3458252.00	2082940.30
## 95	3/21/2011	8156	47.45	31.79	387002.20	259279.24
## 96	09-03-2011	888	109.28	35.84	97040.64	31825.92
## 97	12/28/2011	6267	9.33	6.92	58471.11	43367.64
## 98	6/29/2016	1485	154.06	90.93	228779.10	135031.05
## 99	08-08-2015	5767	81.73	56.67	471336.91	326815.89
## 100	2/15/2012	5367	668.27	502.54	3586605.09	2697132.18
##	Total.Profit					
## 1	951410.50					
## 2	248406.36					
## 3	224598.75					
## 4	19525.82					
## 5	639077.50					
## 6	285087.64					
## 7	693911.51					
## 8	510216.66					
## 9	152114.20					
## 10	584073.87					
## 11	7828.12					
## 12	306097.92					
## 13	606834.72					
## 14	1487261.02					
## 15	122819.06					
## 16	122865.12					
## 17	1208744.24					
## 18	85033.80					
## 19	634745.90					
## 20	337937.60					
## 21	714157.00					
## 22	122029.78					
## 23	122686.50					
## 24	5270.67					
## 25	127054.20					
## 26	315574.05					
## 27	13009.18					
## 28	14031.02					
## 29	80241.84					
## 30	392780.10					
## 31	1505888.07					
## 32	53252.50					
## 33	369155.00					
## 34	1367272.50					
## 35	404010.78					
## 36	160609.54					
## 37	9119.44					
## 38	272672.40					
## 39	846885.00					
## 40	503358.75					
## 41	75555.90					
## 42	1257775.58					
## 43	187545.03					
## 44	10795.23					
## 45	435499.20					

## 46	85223.58
## 47	1541705.29
## 48	6841.38
## 49	575916.48
## 50	159832.50
## 51	166635.36
## 52	23150.46
## 53	359941.17
## 54	436446.25
## 55	18405.17
## 56	255718.08
## 57	727423.20
## 58	495007.89
## 59	46735.86
## 60	1254472.05
## 61	60418.38
## 62	455335.00
## 63	696647.50
## 64	449159.04
## 65	296448.35
## 66	778415.99
## 67	216919.36
## 68	403773.12
## 69	1046233.75
## 70	539196.48
## 71	632512.50
## 72	1621.93
## 73	89904.06
## 74	766835.04
## 75	1719922.04
## 76	1152486.42
## 77	146875.14
## 78	235601.16
## 79	825738.04
## 80	1678540.98
## 81	747939.49
## 82	579000.96
## 83	1128242.43
## 84	225246.90
## 85	407630.41
## 86	160935.32
## 87	138262.14
## 88	532885.74
## 89	1258.02
## 90	72975.60
## 91	119685.00
## 92	147031.74
## 93	255151.25
## 94	1375311.70
## 95	127722.96
## 96	65214.72
## 97	15103.47
## 98	93748.05
## 99	144521.02


```
## 100      889472.91
```

```
summary(Assign) # descriptive data
```

```
##      Region      Country      Item.Type      Sales.Channel
## Length:100      Length:100      Length:100      Length:100
## Class :character Class :character Class :character Class :character
## Mode  :character Mode  :character Mode  :character Mode  :character
##
##
##      Order.Priority      Order.Date      Order.ID      Ship.Date
## Length:100      Length:100      Min. :114606559      Length:100
## Class :character Class :character 1st Qu.:338922488      Class :character
## Mode  :character Mode  :character Median :557708561      Mode  :character
##
##                               Mean :555020412
##                               3rd Qu.:790755081
##                               Max. :994022214
##      Units.Sold      Unit.Price      Unit.Cost      Total.Revenue
## Min. : 124      Min. : 9.33      Min. : 6.92      Min. : 4870
## 1st Qu.:2836      1st Qu.: 81.73      1st Qu.: 35.84      1st Qu.: 268721
## Median :5382      Median :179.88      Median :107.28      Median : 752314
## Mean :5129      Mean :276.76      Mean :191.05      Mean :1373488
## 3rd Qu.:7369      3rd Qu.:437.20      3rd Qu.:263.33      3rd Qu.:2212045
## Max. :9925      Max. :668.27      Max. :524.96      Max. :5997055
##      Total.Cost      Total.Profit
## Min. : 3612      Min. : 1258
## 1st Qu.: 168868      1st Qu.: 121444
## Median : 363566      Median : 290768
## Mean : 931806      Mean : 441682
## 3rd Qu.:1613870      3rd Qu.: 635829
## Max. :4509794      Max. :1719922
```

```
summary(Assign$Unit.Cost) #descriptive column cost
```

```
##      Min. 1st Qu.  Median      Mean 3rd Qu.      Max.
##      6.92  35.84  107.28  191.05  263.33  524.96
```

```
summary(Assign$Units.Sold)
```

```
##      Min. 1st Qu.  Median      Mean 3rd Qu.      Max.
##      124   2836   5382   5129   7369   9925
```

```
Ftable <- table(Assign$Item.Type)
Ftable
```

```
##
##      Baby Food      Beverages      Cereal      Clothes      Cosmetics
##           7           8           7           13           13
##      Fruits      Household      Meat Office Supplies      Personal Care
##          10           9           2           12           10
##      Snacks      Vegetables
##           3           6
```

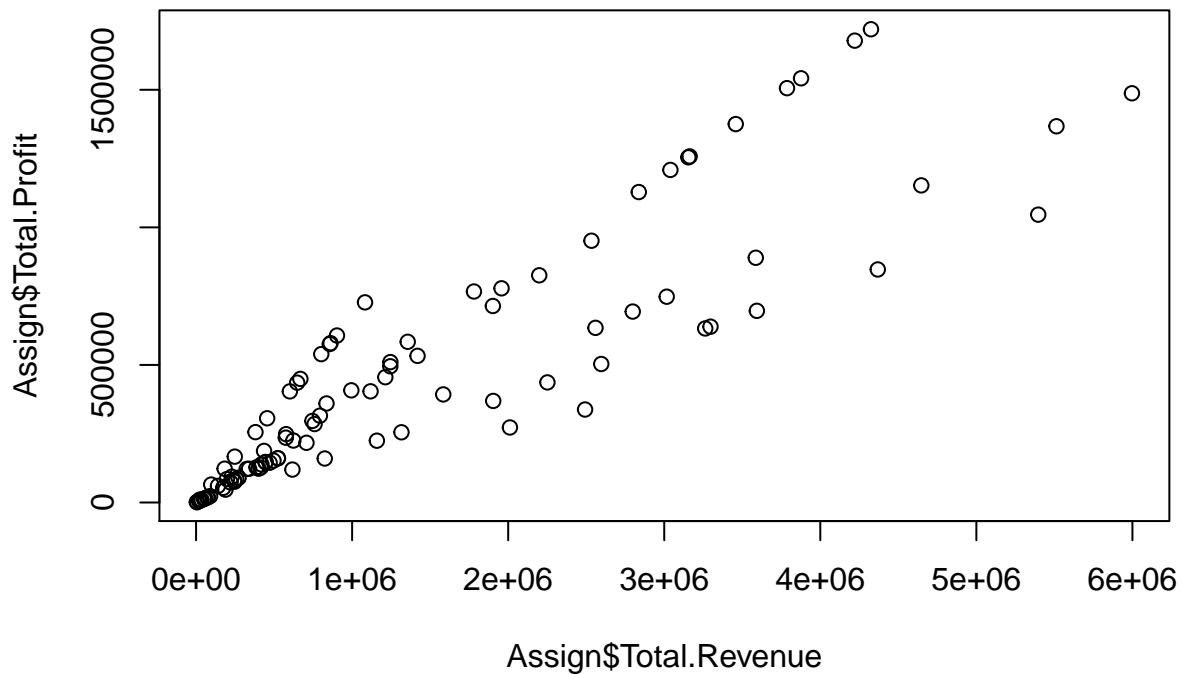
```
summary(Assign$Total.Revenue)
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##  4870  268721  752314 1373488 2212045 5997055
```

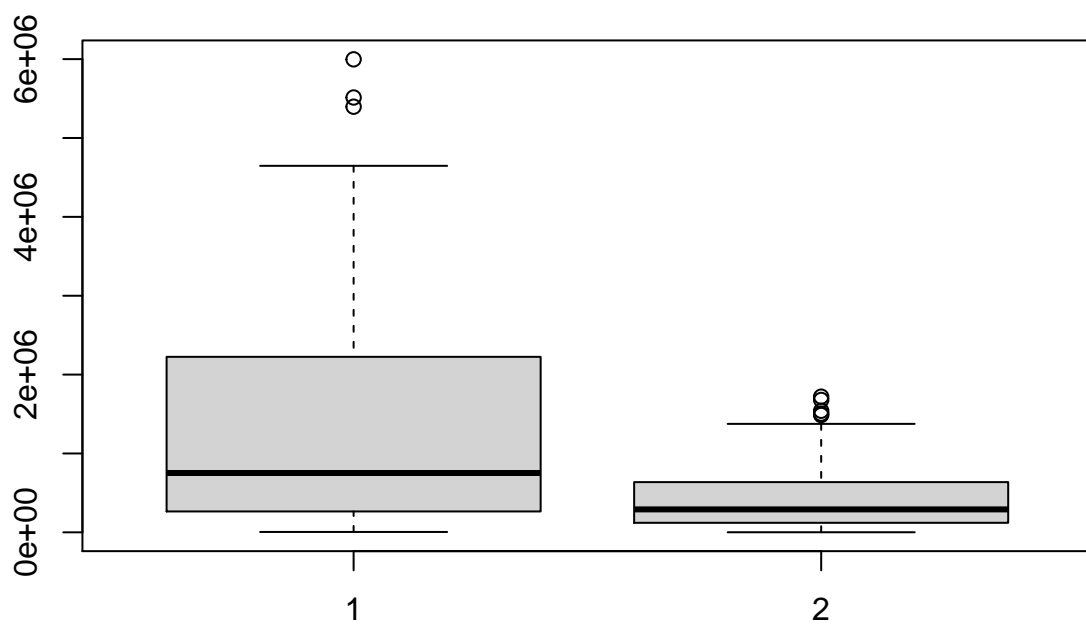
```
summary(log2(Assign$Total.Revenue))
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##  12.25  18.04   19.52   19.25   21.08   22.52
```

```
plot(Assign$Total.Revenue, Assign$Total.Profit)
```



```
boxplot(Assign$Total.Revenue, Assign$Total.Profit)
```



```
barplot(Assign$Total.Revenue, Assign$Total.Profit)
```

