Cross table and scatter plot
Cross table

EXERCISE 1

Background   You have employment data about country X. You have been asked to prepare a cross-table s
60% of 18 to 25-year-olds are employed
85% of 25 to 35-year-olds are employed
5% of 35 to 45-year-olds are unemployed
3% of 45 to 55-year-olds are unemployed
3% of 55 to 65-year-olds are unemployed
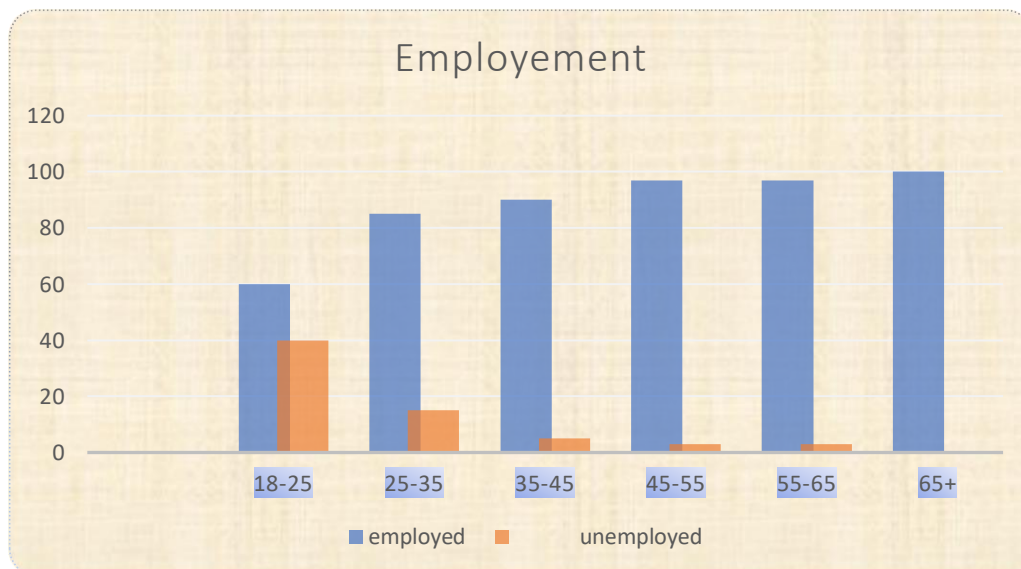All 65+ are employed. Note: the definition of unemployed is: without a job, but actively search

Task 1   Create a cross table summarizing the data you have been given.

Task 2   Create a side-by-side bar chart

TASK 1

| Age group	employed	unemployed
18-25	60	40
25-35	85	15
35-45	90	5
45-55	97	3
55-65	97	3
65+	100	0
Total	529	66

TASK 2

EXERCISE 2

Scatter plot

Background You are given the closing stock prices of Apple, Alphabet Inc. (Google) and Bank of America
Task 1 Create a scatter plot with Apple and Alphabet stock prices.
Task 2 Create a scatter plot with Apple and Bank of America stock prices
Task 3 Explore if there is a relationship between the two variables.

Date	pple (AAPL)	Alphabet (GOOGL)	Bank of America (BAC)
1/3/2017	116.15	808.01	22.53
1/4/2017	116.02	807.77	22.95
1/5/2017	116.61	813.02	22.68
1/6/2017	117.91	825.21	22.68
1/9/2017	118.99	827.18	22.55
1/10/2017	119.11	826.01	22.94
1/11/2017	119.75	829.86	23.07
1/12/2017	119.25	829.53	22.92
1/13/2017	119.04	830.94	23.01
1/17/2017	120	827.46	22.05
1/18/2017	119.99	829.02	22.63
1/19/2017	119.78	824.37	22.53
1/20/2017	120	828.17	22.64
1/23/2017	120.08	844.43	22.56
1/24/2017	119.97	849.53	22.95
1/25/2017	121.88	858.45	23.37
1/26/2017	121.94	856.98	23.44
1/27/2017	121.95	845.03	23.36
1/30/2017	121.63	823.83	22.95
1/31/2017	121.35	820.19	22.64
2/1/2017	128.75	815.24	22.89
2/2/2017	128.53	818.26	22.72
2/3/2017	129.08	820.13	23.29
2/6/2017	130.29	821.62	23.12
2/7/2017	131.53	829.23	22.9
2/8/2017	132.04	829.88	22.67
2/9/2017	132.42	830.06	23.12
2/10/2017	132.12	834.85	23.08
2/13/2017	133.29	838.96	23.4
2/14/2017	135.02	840.03	24.06
2/15/2017	135.51	837.32	24.58
2/16/2017	135.34	842.17	24.58
2/17/2017	135.72	846.55	24.52
2/21/2017	136.7	849.27	24.78
2/22/2017	137.11	851.36	24.79
2/23/2017	136.53	851	24.58
2/24/2017	136.66	847.81	24.23
2/27/2017	136.93	849.67	24.57
2/28/2017	136.99	844.93	24.68
3/1/2017	139.79	856.75	25.5
3/2/2017	138.96	849.85	25.23
3/3/2017	139.78	849.08	25.44
3/6/2017	139.34	847.27	25.25
3/7/2017	139.52	851.15	25.21
3/8/2017	139	853.64	25.26
3/9/2017	138.68	857.84	25.35
3/10/2017	139.14	861.4	25.31
3/13/2017	139.2	864.58	25.3
3/14/2017	138.99	865.91	25.32
3/15/2017	140.46	868.39	25.18
3/16/2017	140.69	870	25.22

3/17/2017	139.99	872.37	24.86
3/20/2017	141.46	867.91	24.44
3/21/2017	139.84	850.14	23.02
3/22/2017	141.42	849.8	22.94
3/23/2017	140.92	839.65	23.07
3/24/2017	140.64	835.14	23.12
3/27/2017	140.88	838.51	23.03
3/28/2017	143.8	840.63	23.48
3/29/2017	144.12	849.87	23.35
3/30/2017	143.93	849.48	23.87
3/31/2017	143.66	847.8	23.59
4/3/2017	143.7	856.75	23.59
4/4/2017	144.77	852.57	23.44
4/5/2017	144.02	848.91	23.17
4/6/2017	143.66	845.1	23.26
4/7/2017	143.34	842.1	23.16
4/10/2017	143.17	841.7	23.02
4/11/2017	141.63	839.88	22.92
4/12/2017	141.8	841.46	22.65
4/13/2017	141.05	840.18	22.34
4/17/2017	141.83	855.13	22.81
4/18/2017	141.2	853.99	22.71
4/19/2017	140.68	856.51	22.74
4/20/2017	142.44	860.08	23.07
4/21/2017	142.27	858.95	22.71
4/24/2017	143.64	878.93	23.63
4/25/2017	144.53	888.84	23.98
4/26/2017	143.68	889.14	23.89
4/27/2017	143.79	891.44	23.65
4/28/2017	143.65	924.52	23.34
5/1/2017	146.58	932.82	23.61
5/2/2017	147.51	937.09	23.53
5/3/2017	147.06	948.45	23.77
5/4/2017	146.53	954.72	23.85
5/5/2017	148.96	950.28	23.74
5/8/2017	153.01	958.69	23.96
5/9/2017	153.99	956.71	23.98
5/10/2017	153.26	954.84	24.15
5/11/2017	153.95	955.89	24.07
5/12/2017	156.1	955.14	24
5/15/2017	155.7	959.22	24.06
5/16/2017	155.47	964.61	23.99
5/17/2017	150.25	942.17	22.57
5/18/2017	152.54	950.5	22.74
5/19/2017	153.06	954.65	23.05
5/22/2017	153.99	964.07	23.04
5/23/2017	153.8	970.55	23.39
5/24/2017	153.34	977.61	23.36
5/25/2017	153.87	991.86	23.25
5/26/2017	153.61	993.27	23.24
5/30/2017	153.67	996.17	22.91
5/31/2017	152.76	987.09	22.41
6/1/2017	153.18	988.29	22.63

TASK 1

AAPL vs GOOGL
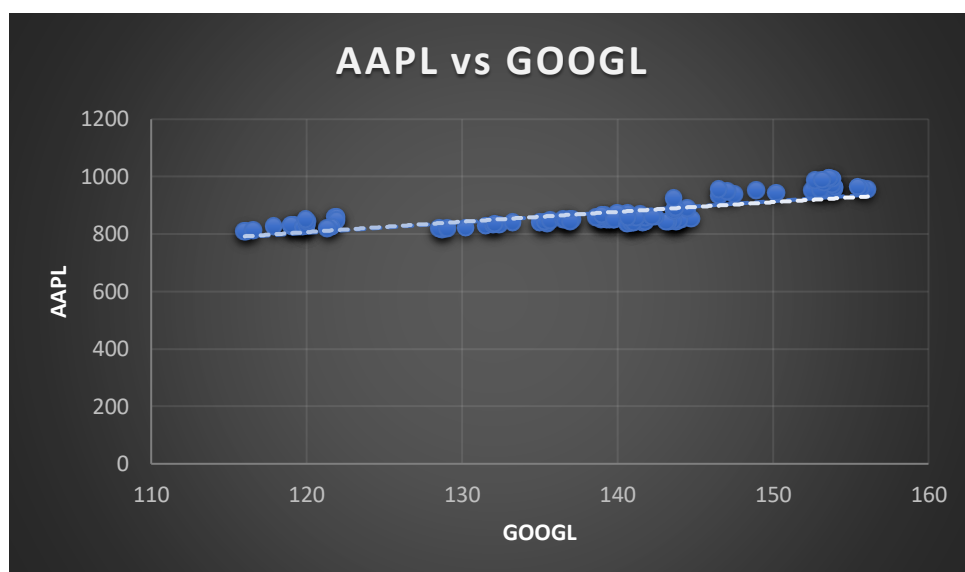
| Corr Coeff | 0.7873931 |

TASK 2

AAPL vs BAC
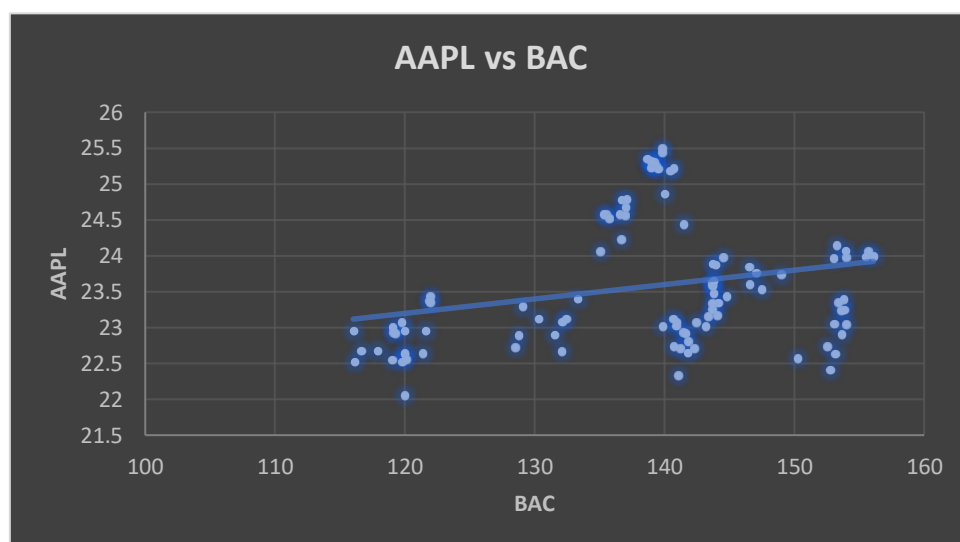
| corr coeff | 0.255426636 |

howing that data.

ing for oneall 65+s are employed.

on different dates for a period of 6 months.