

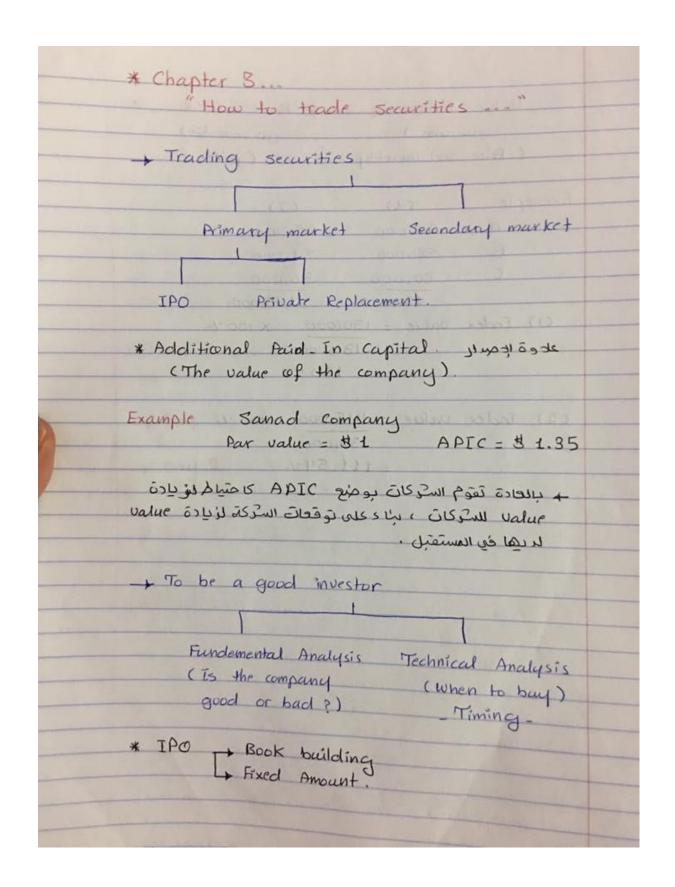
Dowlenes July 4 2015 ple de
ب خدجت ستركة ATNT ، بالمقابل دخلت Apple .
. Dike مَامِي المقابل د ALCOA مَنْ مِنْ مَنْ مُنْ مُنْ مُنْ المقابل دخر مِنْ سُرِكَة المُنْ المُنْ الم
. Dine des diadis e made
, 800 201 + 13 = 3203
office index dears your diges
1) Price weighted index + Dow Jones
Nikiie
+ فو تسي (المؤسر البريطاني).
- CAC - كاك (المؤمنر الفرنسي).
المؤسرات الأعربكية (4 مؤسرات).
080 - 048 - Sules daha : 0 + 100 +
xample (Day 0) (Day 1) (Day)
Price Price Price
A 10 20 10 6
B 20 15 15 20
C 30 ×40 40 31
NO.T - X
7 686 - 0160 - 1110 75100 65 53
P.P.F
en allin ares tilge de luzion A.
) Peters - Ending - 1
→ Day 0 : Index value = 60 = 20
1 21 21 2 088 3
- Day 1: Index value = 75 = 25
3
$\rightarrow \text{ Day 2} : \frac{65}{x} = 25 \rightarrow x = 2.6$
Index value = 57 = 21.92
2.6

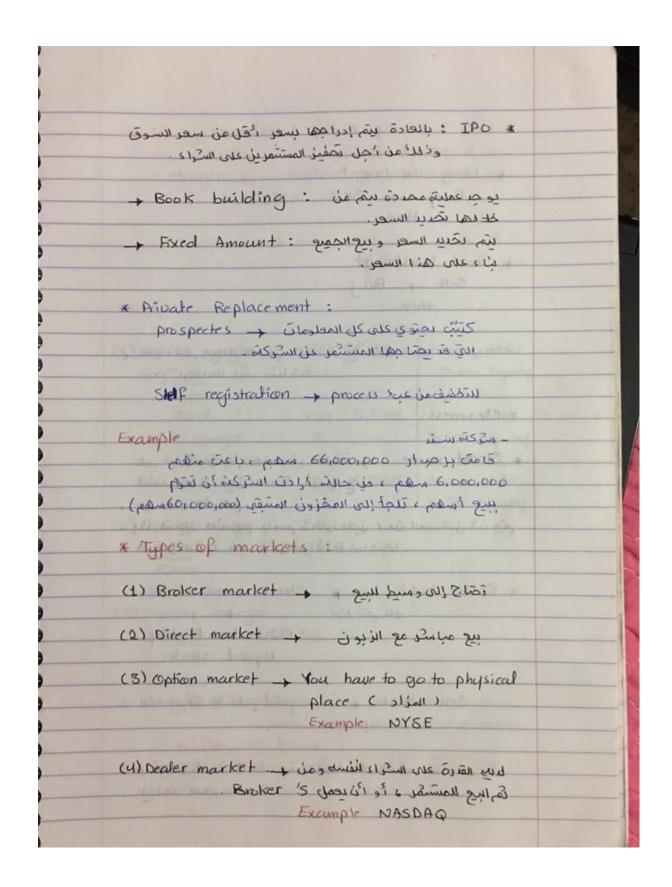
Example	(Day 0)	Charl 1) /	Day 2)
-	Price	Price	a ala	Price
A	100	120	1001	90
В	H00 811	720	2160	2500
С	40	35	35	50
A STATE OF THE PARTY OF	840	875	2315	2640
* Stock R	everse 3:1			
(1) Index a	11 days (va	lue)		In the second
	on day o			
	243 - 21° C 16.			
	Palues .			
- Day o	: Index value		= 28	0
15 posts	(A pisas	3		
- Day 1	: Index value	3	= 29	1.67.
D D .	2315 =			G.
	× ×	291.07		3
	× :	7.94	2	
E2 53	Index value			32.5
		7.94		
The second second	S 41192 ME A	Jan A		
(2) Return	= Ending	-1		
00 - 0	Beginning	y had	0) 10	0
	= 332.5	-1 =	18.7	5 .1.
20	280	xsisal.	11	50
	2			
3.0 -	X + 22	28	200	67
-		T		
00 10	E	7		

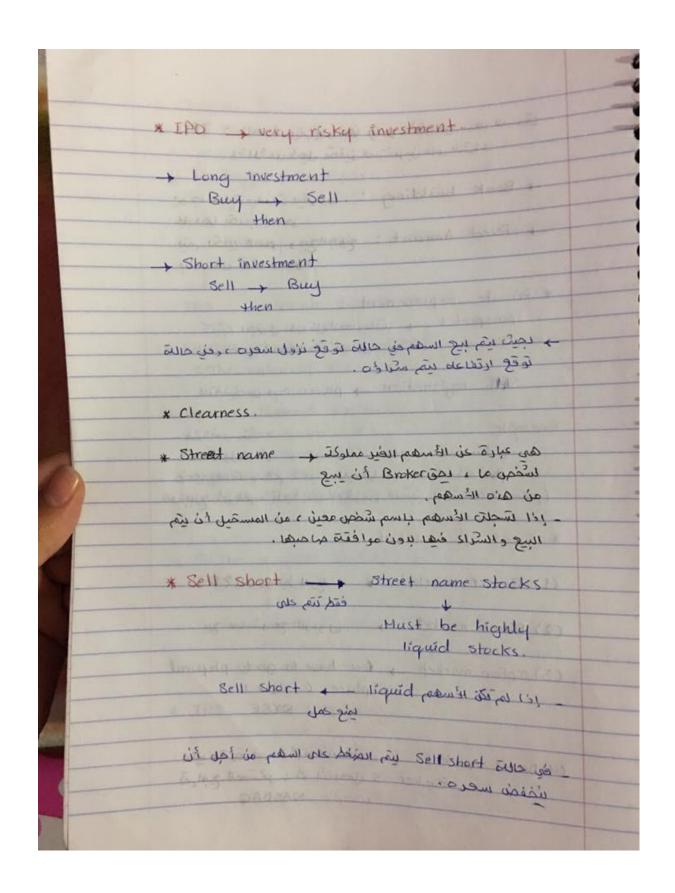
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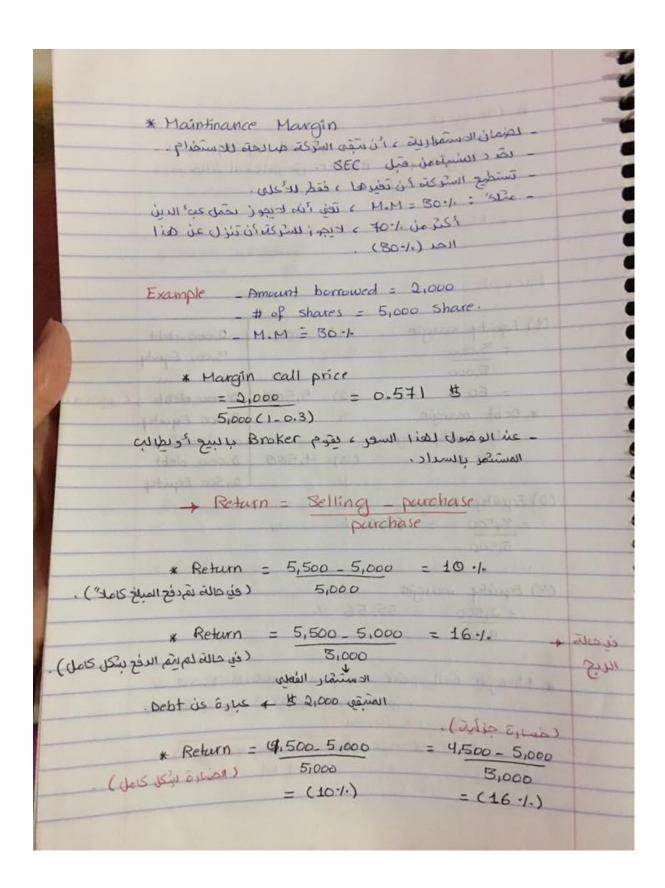
18.31	2 1		THE PARTY OF
	index 4	7/2	
	(تقمد =		
. C Price	and quantity	.(p	ice
P Rock	building 1	-	Park of St.
	(1)		
	20,000		
	80,000		
	80,000		
	130,000		
	value = 130		
	10110013		
	(Frandus)	100 %	SOLO
	value = 14		
TC = 8 + 35	9A 136	0,000	
TC - 8 + 35	13c = 111	.54.1.	
- Mestin	9A 13c = 111	.54./.	SAN SERVICE
- MINE TO	9A 13c = 111 545 345 445	.54./.	SAN SERVICE
- MINE TO	9A 13c = 111	.54./.	SAN SERVICE
- MINE TO	9A 136 = 111 \$26326 466	.54./.	Marie ander
- MINE TO	9A 136 = 111 \$26326 466	.54./.	Marie ander
- MINE TO	9A 136 = 111 \$26326 466	.54./.	Marie ander
A MINOS TON	136 = 111 5 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.54./.	Ad at a
- MINCE TOO - MIN	9A 136 = 111 5-4-5-2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	54./.	Ad at a
- MINCE TOO - MIN	9A 136 = 111 5-4-5-2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	54./.	Add of the second
A MINOS TON	9A 136 = 111 5-4-5-2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	54./.	Add of the second
- MINCE TOO - MIN	A 136 - 111 And Calcium	54./.	Add of the







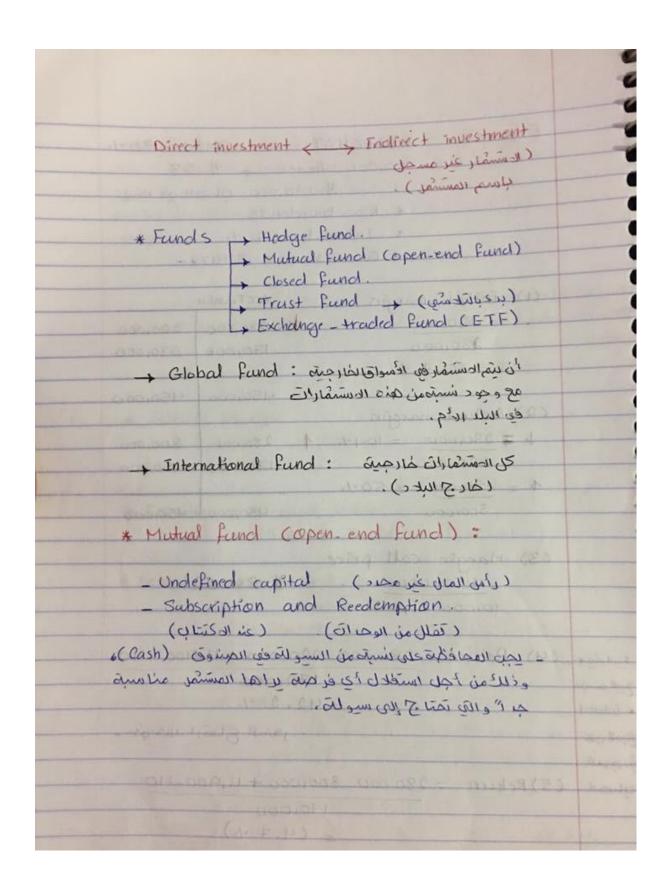
* Margin	- magazida n	BOOF STORY R	
The state of the s	Eg Hamise.		-
Margin +	Broker jouplin	- في حالة الدة	
تدني وجود	September 25 A District		
		The state of the s	
9	sell short	The state of the s	
line (Arabi	سُوعِنْ فَي	Ro.	
Evamala	bound trans	The same of	
Example	a small of the	Services	
(1) Equity margin	(1) 5,000	2,000 debt	
= 5,000		3,000 Equity	
5,000	13 ming 1180-	Company of the company	
= 60 %	(2) 5,500	2,000 debt ,	تغير)
* Debt margin	1 (8-11)	3,500 Equity	
= 1 - Equity margin	Service making	Dung Printer	
= 40 -1.	(3) 4,500	2,000 debt	
	-	2,500 Equity	
(2) Equity margin	TOTAL STATE OF THE PARTY OF THE	1405) mg 150	-
= 8,500 = 63.	6 1.	-	
5,500		100	-
(B) English and	00.5 000.6	and the second	
(3) Equity margin	5 F / . /	the contract of the contract o	21480
= 2,500 = 55 4,500	0.56 %	Palacas	
7/500	CONTROL OF THE PERSON OF THE P	Company of the Compan	
* Margin Call price	231 2011	101 1 2 11 1	40.0
= Amount B	او دلمالي بېسد يد اله محمد	Shirt PIDLEL	
# of shoures		ma mitid	
annie Sierra	M.M	metregin)	
(4-61-)-	12003 -		1



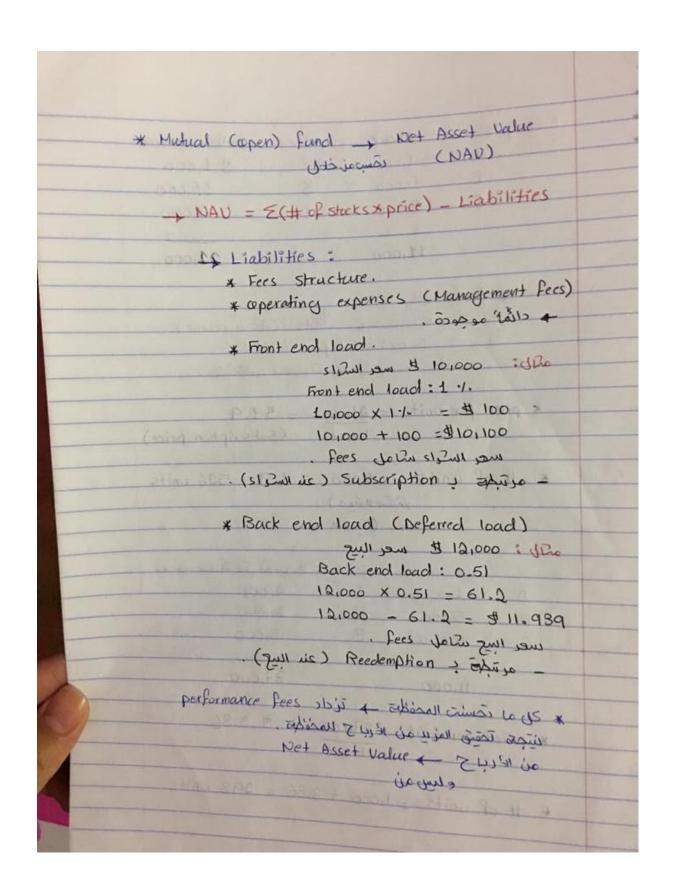
	Example	10,000 Shar	es from a	ADTCC	
		# 10,000 , You			
		Broker accept t	77 20		
	4010 000	M.M = 40 %	~	- Company	
		* PADICO par		5.1.	
		* Broker will			
		* Commission			
113	Thun, Ha	Price: 1 \$ 1.5	, v 4 c	5.7	
			Witness Treatment	na Residua.	
_	* Actual	margin:	10,000	6,000 Equity	
	+ 6,000	= 60%		4,000 Debt	
-	10,00	0		NESTAN,	
-	+ 11,000	= 43.3 %	15,000	11,000 Equity	11日本
4		501401		4,000 Debt	
-		= 43 -1.		St. 18. 1.	
-					1 \$ 0.3
-		Looker - Hearly		4,000 Debt	
-		# = DDO.F			-
-		call price = 4			
+	- 11	10,00	00 (1-04)	NO POSTAN SE	
	0.10	THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS	olf	0- 41-	
+		= 15,000 - 10		- 200-40	
	ني حالة الديح)		6,000		
-	-		87.6 %		
	01.	Author Tos Ar			
-	The second second second	= 4,000 - 10	6,000	_ 200_90	
-	Fo.L P		(45.1.)		
	A Selection		(43 .1.)		
		- ont + on2 - ou	A TEL MAN A	· coulum ·	
1	o = 610.0		2.14. 933.31	The state of	

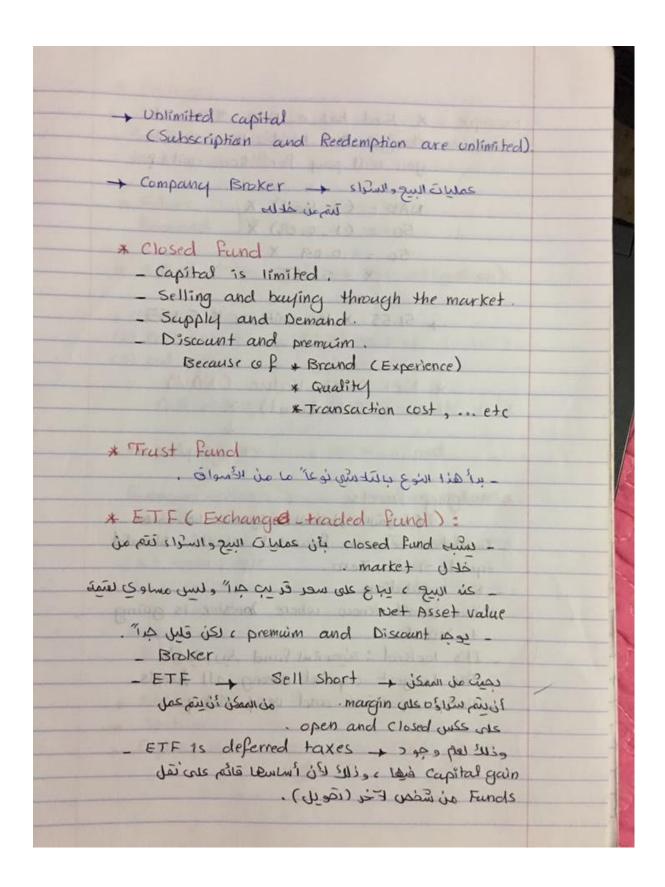
			-
	* Sell Short	MANAGE	
	mangin de las	- فقط بينم الد	-
	(marcin sos)		
	purchas als stassia Long + 101	a otus lac -	
	price.		
	PICE I See		
	١٥١٥٥٥ (سعر البيع).	1,000 →	(سحوالتواد)
	(Jlajos Broker W dais , right 1 5,000	8,000 Equity	Value
	15,000	15,000	Carre
120	* Initial margin = 5,000 = 50.1.	0 20 11 4 000 00 11	
- ALL	10,000	3100 F	
	* Equity = Account value - Man = 15,000 - 7,000 = \$	\$ 8,000	
	* Actual margin = New Equity Harket value	a migration a	
	= 8,000 = 11	4.29 1.	
		Chien Land	
	A-A-F-8		
rac v	* Margin call price = AccT. value # of shares(1+ M.	(M)	
	= 15,000 = 10,000(1+0.4)	\$ 1.07	
	* Return = 10,000 _ 7,000 _ 500 + 200	<u>-40</u> = 53.2	-1-
	5,000	-40 = 53.2	-1-

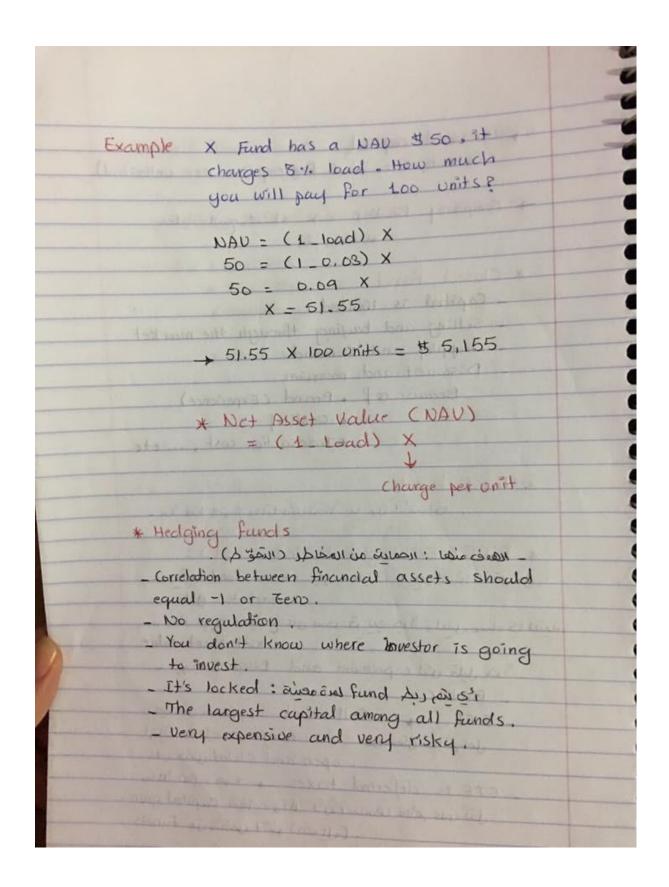
	900
Example SNAPCHAT M:M = 50%	-
10,000 Shares → \$ 28	
يوجد في المساب ١٦٥،٥٥٥ ك	
* No Dividends.	100
* Interest = 7 %	
* Commission = \$ 40	
4-11-12-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	
(1) Initial margin ACCT. value	
= 170,000 \$ 280,000 220,000	
280,000 170,000 230,000	
= 60.7 %	
450,000 450,000	
(2) Actual margin	
V = 230,000 = 104% 1 280,000 300,000	
220,000 170,000 150,000	
A = 150,000 = 50·/·	
800,000 450,000 450,000	1/2
C / Santi-Subsect Long Induly 4	
(3) Margin call price.	
= 450,000 = \$ 34.62.	
10,000 (140.3)	
(1.11 (2.11 (
sman + (4) Return = 280,000 - 220,000 + 11,900 - 40	1
14.0 20.0	
110 0 1/	
F Indicat	
- كني كالمة ارتفاع السعر ، على المبلغ	
المومودة	
olumn (5) Return = 280,000 - 300,000 + 11,900-40	100
1401000	
= (4.7.1.)	- B
- في عالته انظفاض السعر ،	
	K

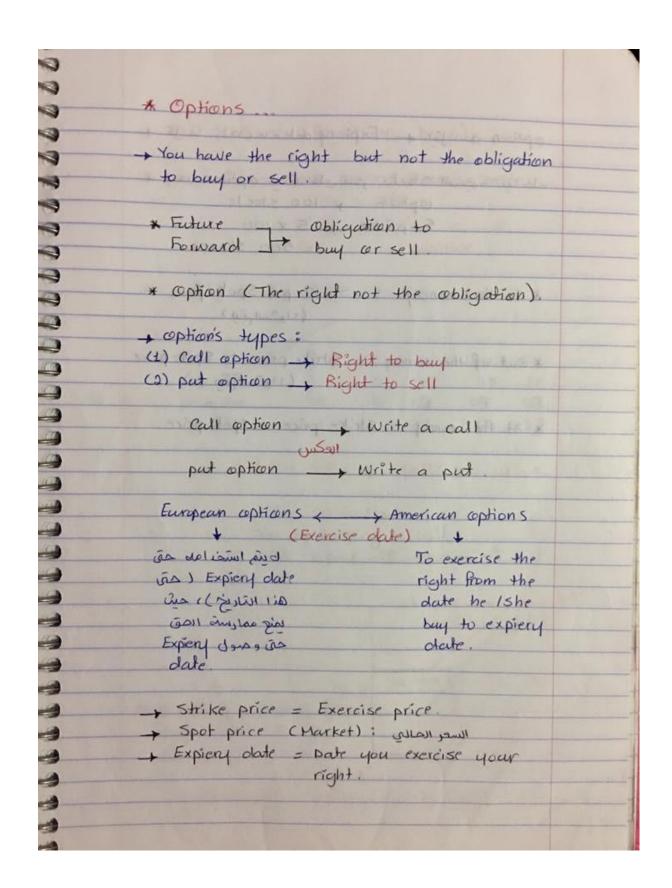


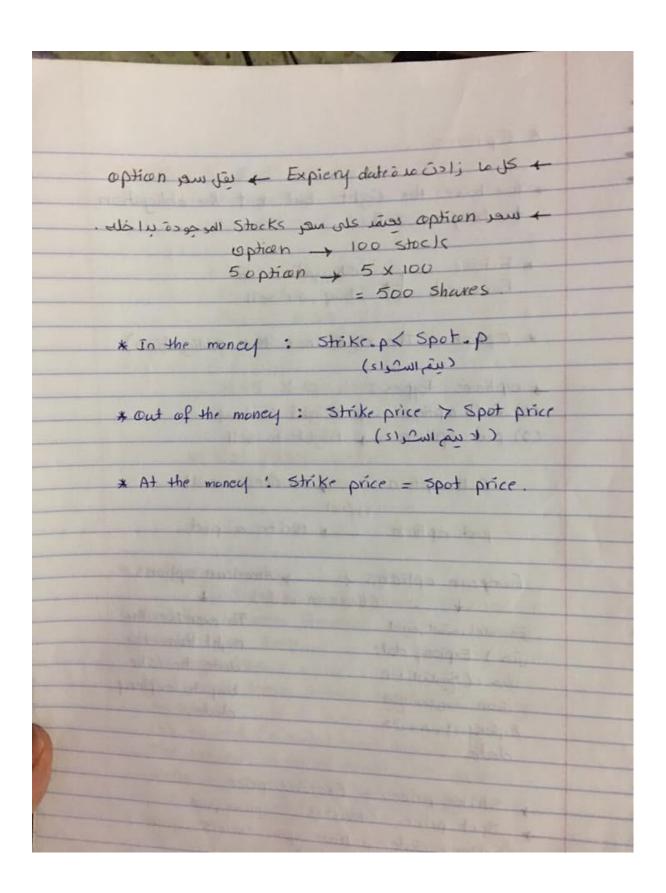
Example share	price Dollar amount
A 1,000	\$1 \$1,000
B 5,000	3 15,000
C 5,000	1 5,000
	21,000
	X Firs Strain
in funds	
stock	Units (As a name)
Is replaced l	by has from x
	ود مَد عمد نه مَنعَده
* price per unit = 210	
* price per Onis = 211	00 (Subscription price)
we with all of	
* # of units = 1,00	0 - 1.9 = 526 units
	(6)
ردري لمعطى السدا	
- 1 000,01 B + 10 Hue	
2 to a local base of	+ في حالة نقم تضير الأسعار
A 1 1,000 2	
B 5,000 4	20,000
C 5,000 3	15,000
	1 -6 31 Must) -
11,000	37,000
*1 97	ma - 4 3 94
* price per unit = 37	0.00
- 10 N/40 5 - 10 N/40 114	000
0	+ 3.36 = 298 units.



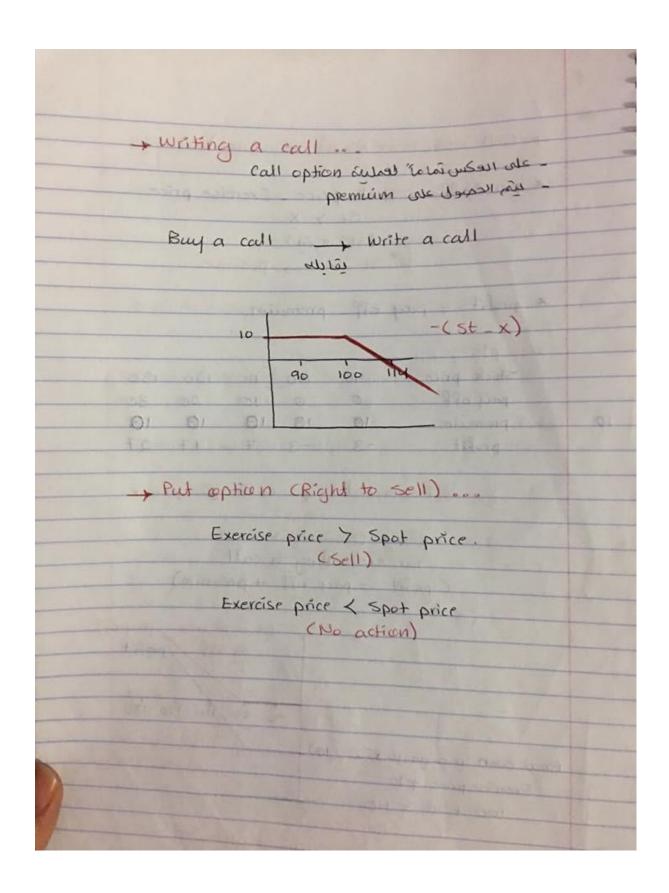


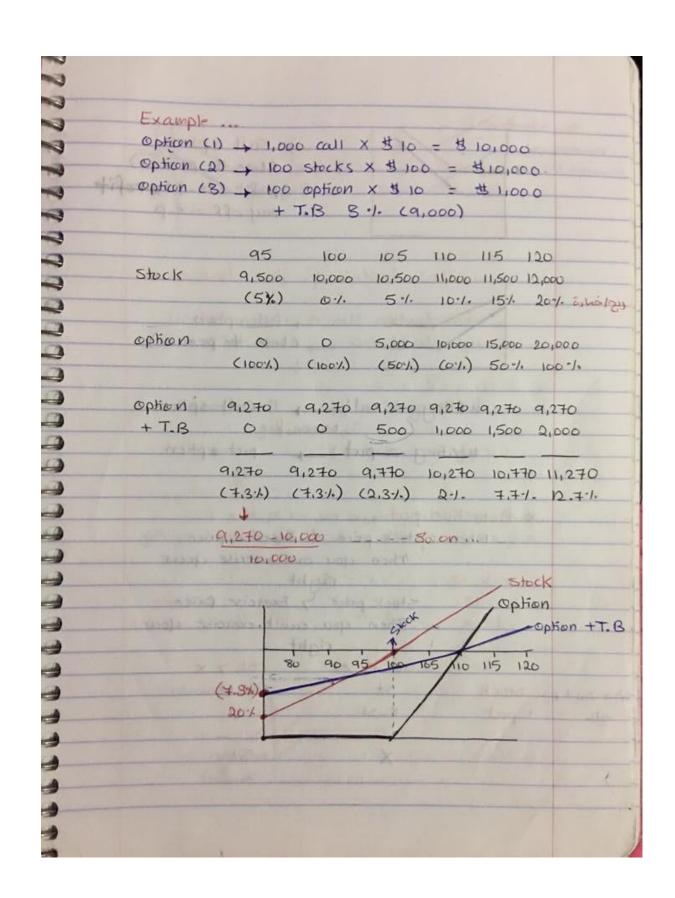


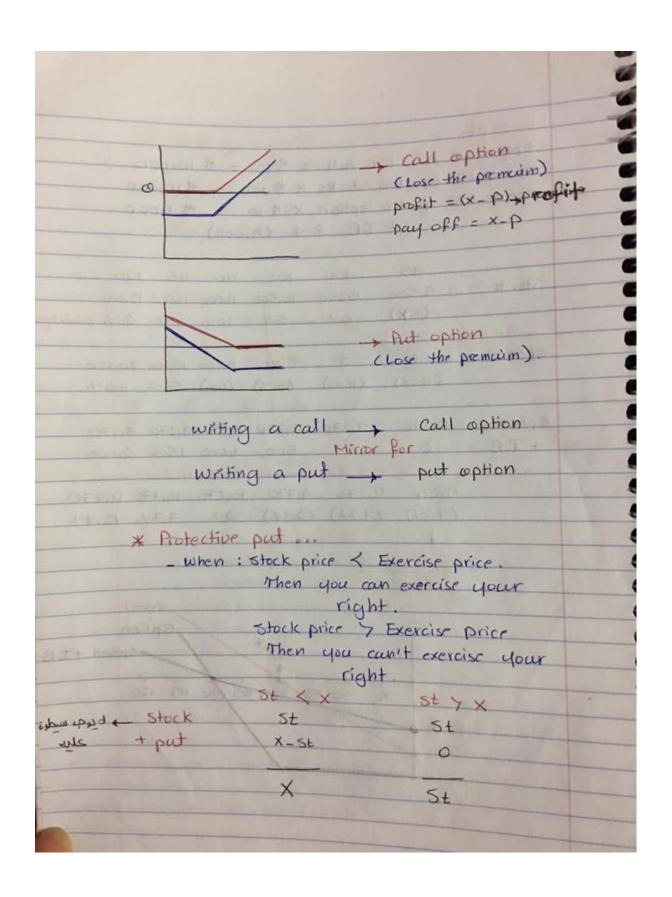


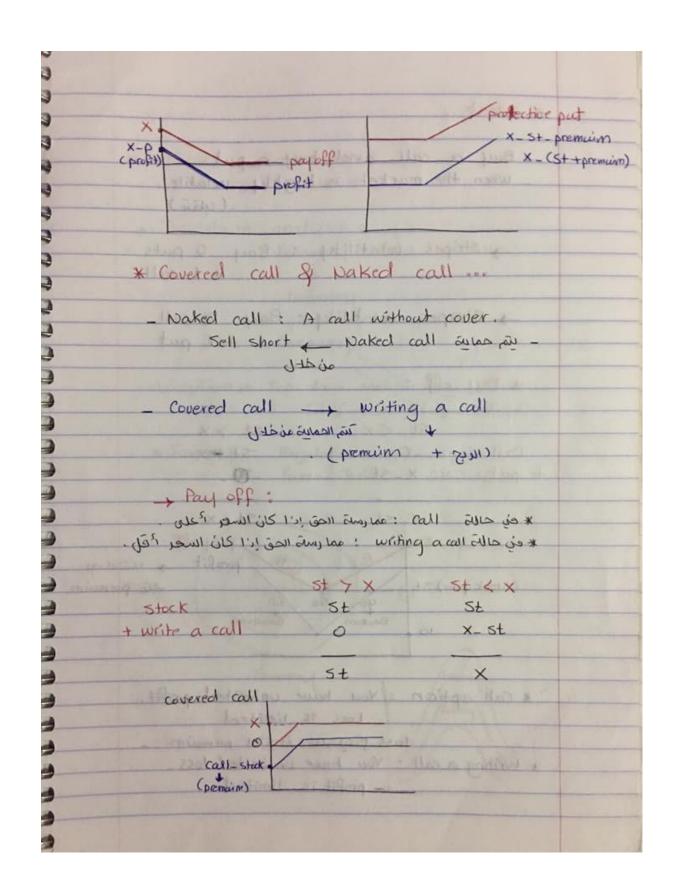


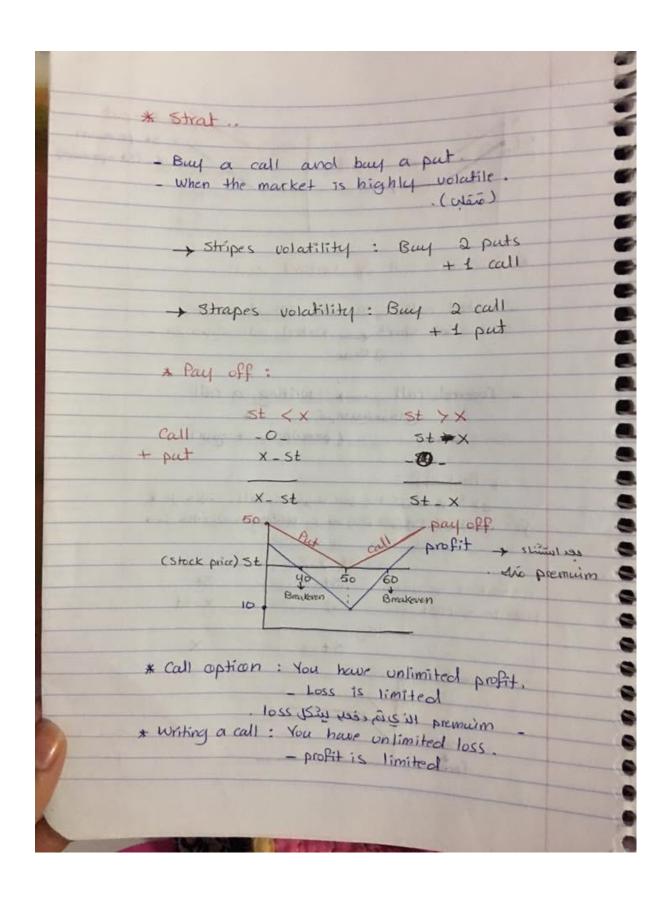
```
+ Call option (Right to buy)
     * pay off = stock price - Exercise price
                    St Y X
                 ( دنم اللكواء )
                    St x > positive
     * profit = pay off - premuim.
     Example ...
       Stock price
                    90 100 110 120 130
       pay off
                   0 0 10 20 30
10 (some) premium
                    10 18 18 18 18
        profit
                    -3 -3 7 17 27
             write a call & call of bree *
              (عداکسادلف) 🗼
               You are selling a call
             ( profit = pay off + premain)
                            das in 100 us + pay off
                               payoff profit
                            90 100 /10 120 130
    (10) ع تدخل في ندر يا Break even
                                ) -> Int 100 0x
      Exercise price + 10
                                 الاضارة بالتظفافي -
        100 + 10 = 110
           (Breakeven)
       * Breakeven = pay off + premium
```

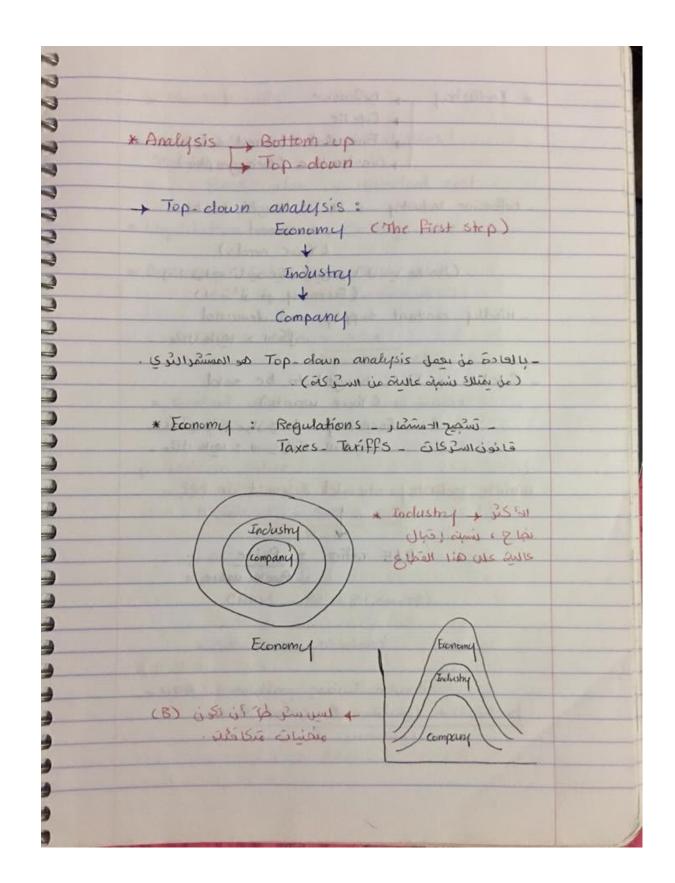


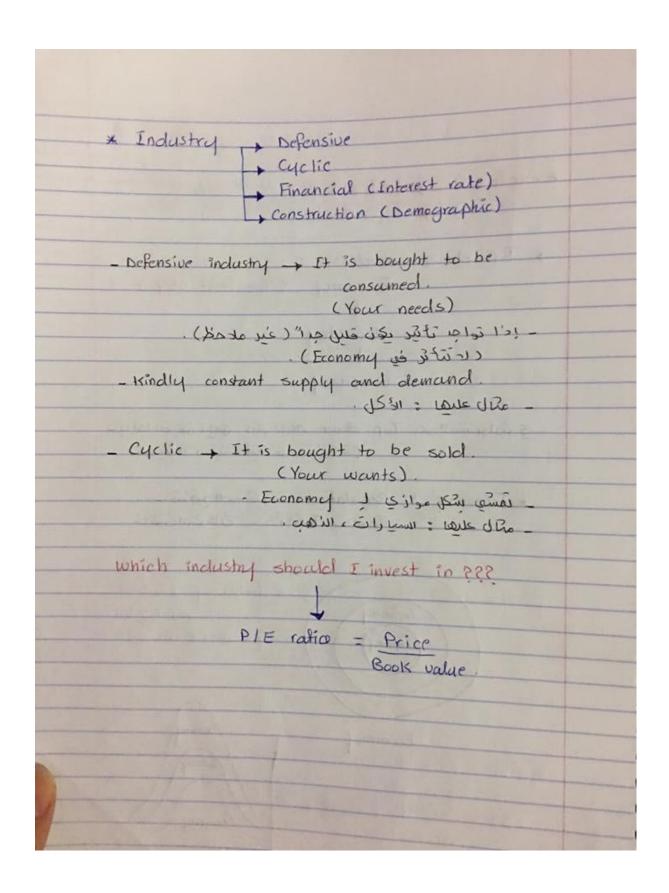




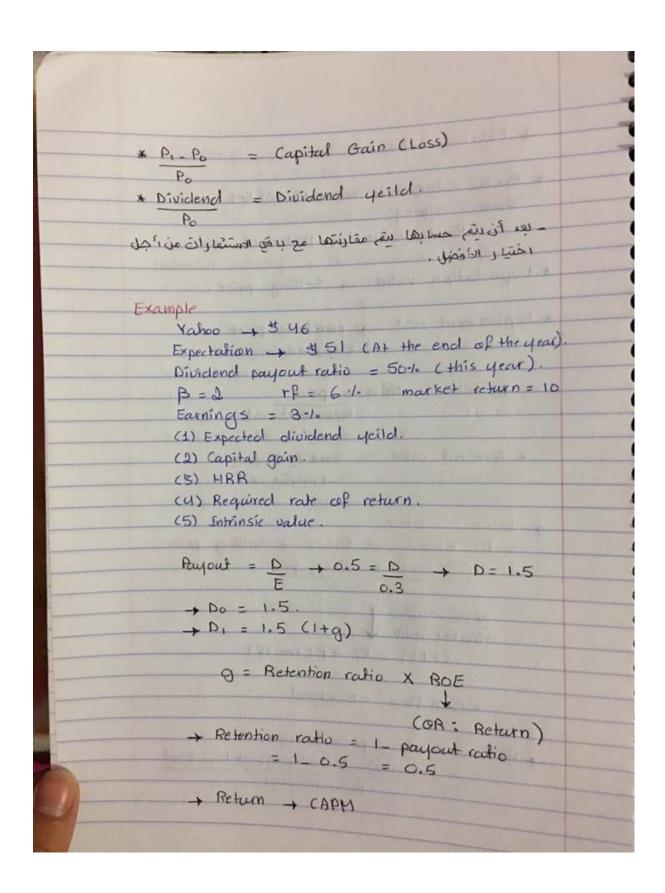




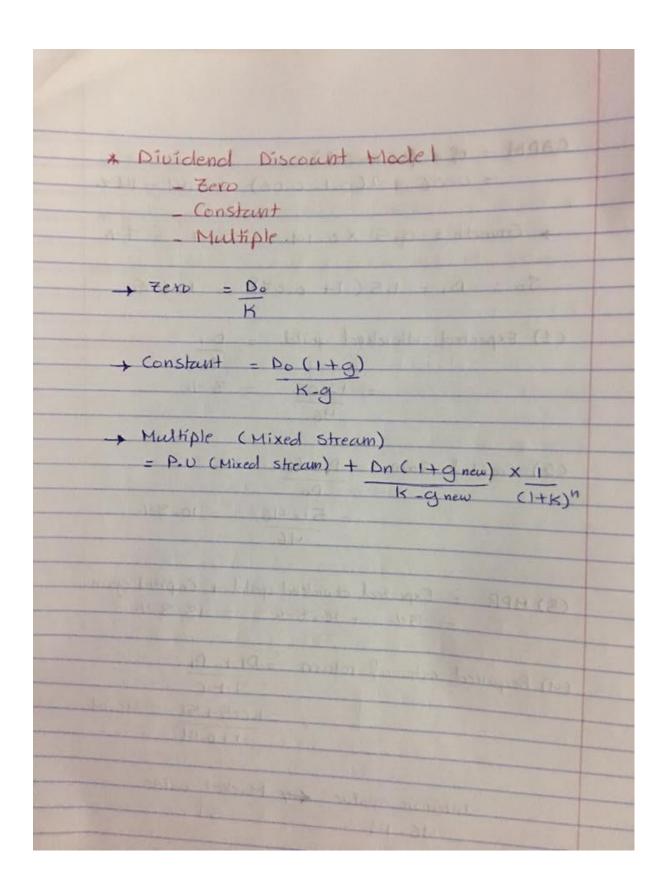


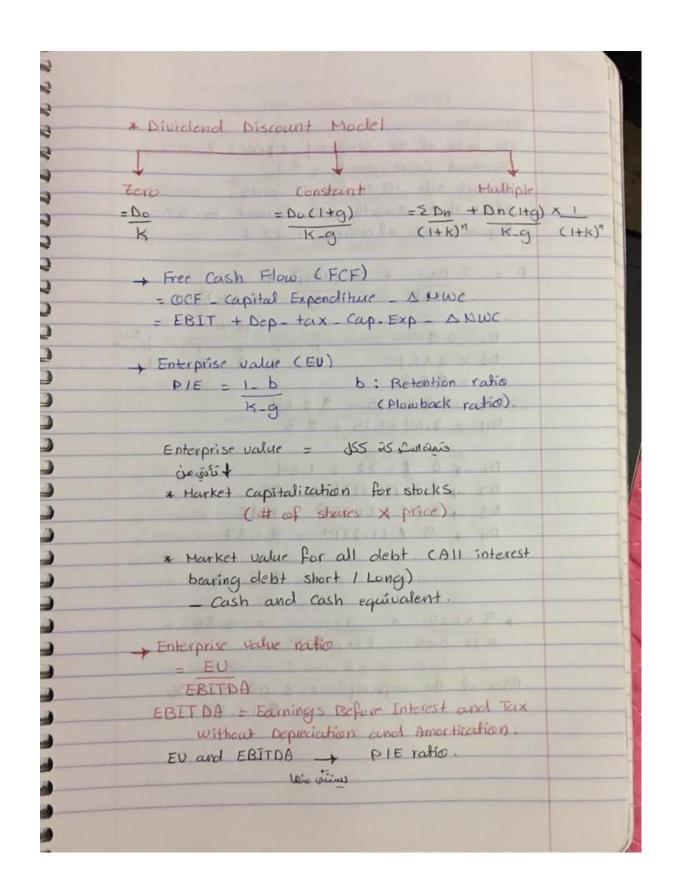


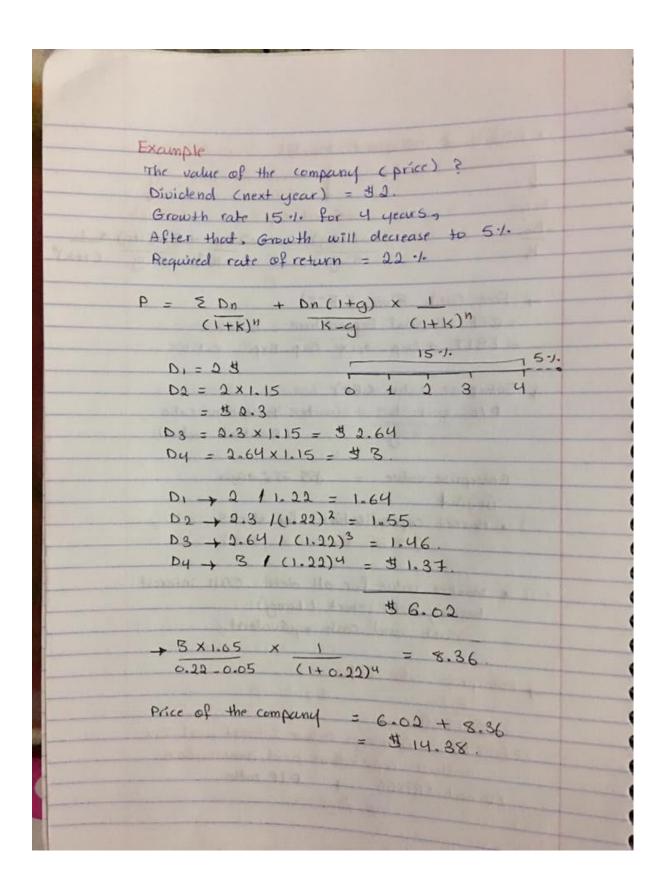
```
→ Market ratio
* Book value = Asset - Liabilities
  "Owner's equity"
         Book value , Historical cost.
* Liquidation value - Selling price.
* Replacement cost -> purchase price
              ( عا هي العَمَلَ السودية ).
    Tobin's ratio = price
             Replacement cost
   * Terminal value: o sal sulli jo sail
                      (عنه التعيفته).
 + Intrinsic value
    = Pou of all each flows + Selling price
     Dividend + Selling price
       ا نقارن الشجة عج
       Market value +
           CAPM = RP + B (rm-rf)
       * Cash flow = Dividend
  + HPR = Holding period return
          = Pr (selling) - Po (purchasing) + Dividenal
                     Po (purchasing)
```



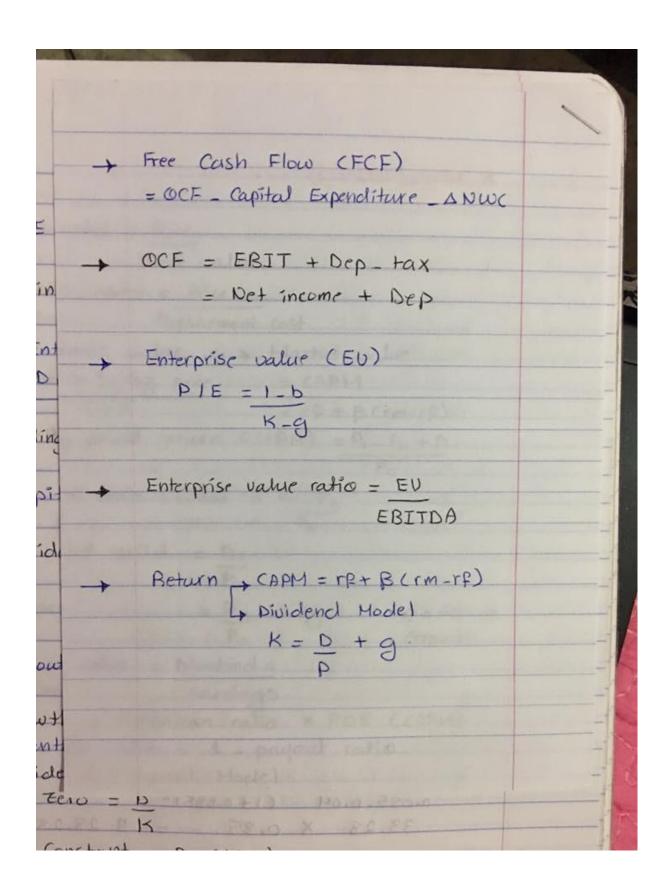
```
CAPM = rf + B (rm-rf)
      = 0.06 + 2(0.1-0.06) = 0.14 = 14%.
  + Growth = 0.5 X 0.14 = 0.07 = 7%
   So: D, = 1.5(1+0.07) = 1,605
 (1) Expected dividend yeild = D.
                          = 3 -1.
                = 1.605
(2) Capital Gain = P4-Po
                  = 51-46 = 10.8-1.
(B) HPR = Expected dividend yelld + Capital gain
         = 5% + 10.8% = 13.8%
(4) Required rate of return = DI + P1
                       =1.605+51 = 46.14
                         1+0-14
       Intrinsic value & Market value
              (BOY)
Hold بالمك بد ( المعدة) بسيط في العند : Note *
( Neither buy nor sell)
```

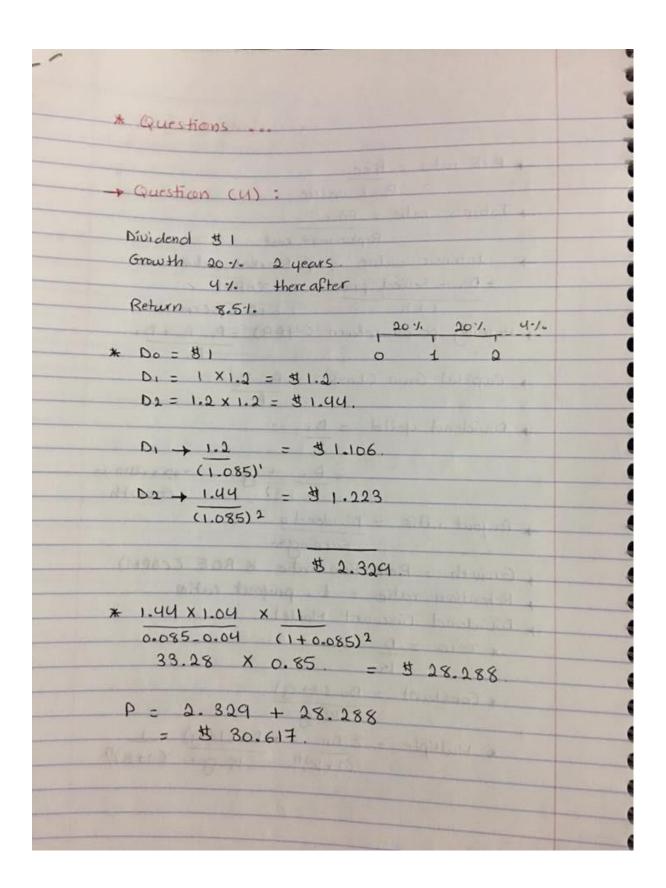


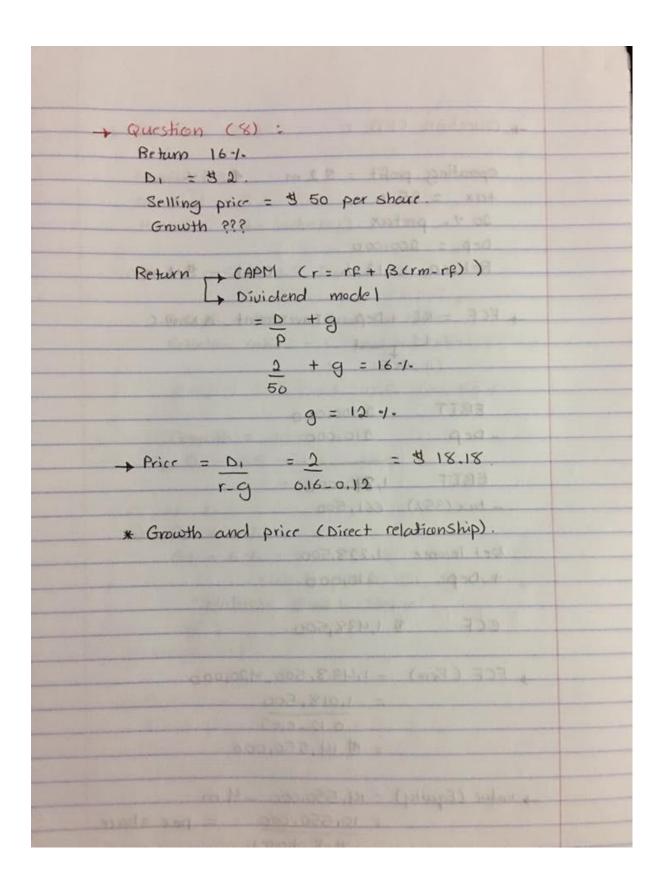




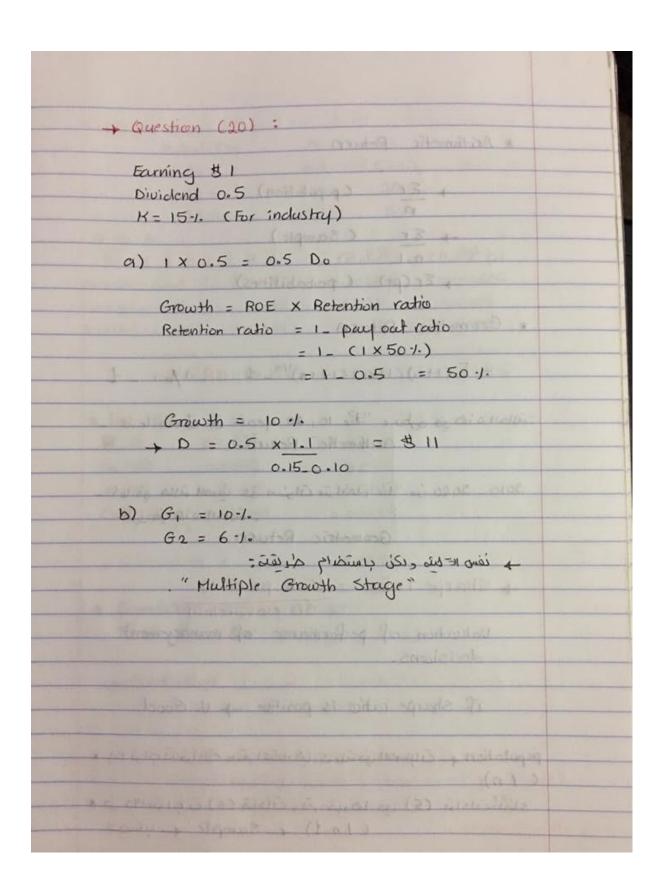
```
PIE ratio = Price
           Book value.
+ Tobin's ratio = Price
           Replacement cost.
   Entrinsic value & > Market value
                  = rf + B(rm-rf)
+ Holding period return (HPR) = P1 - P0 + D1
+ Capital Gain (Loss) = A-Po
+ Dividend yeild = DI
+ Payout ratio = Dividend o
                Earnings ...
+ Growth = Retention ratio X ROE (CAPM)
   Retention ratio = 1 - payout ratio.
 Dividend Discount Model
     * Constant = Do (1+g)
             K-9
     * Multiple = 2 Dn + Dn (1+g) x 1
```

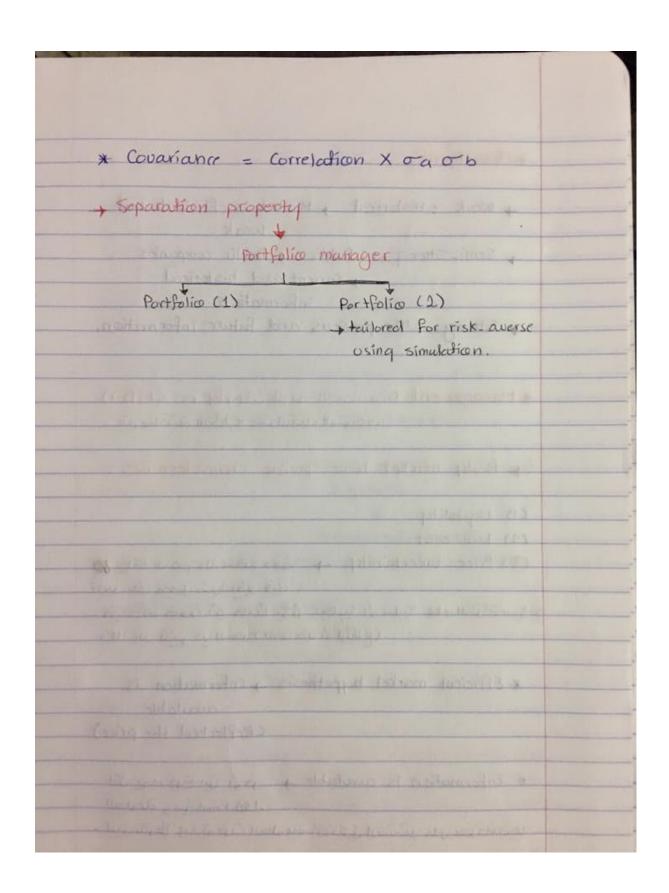


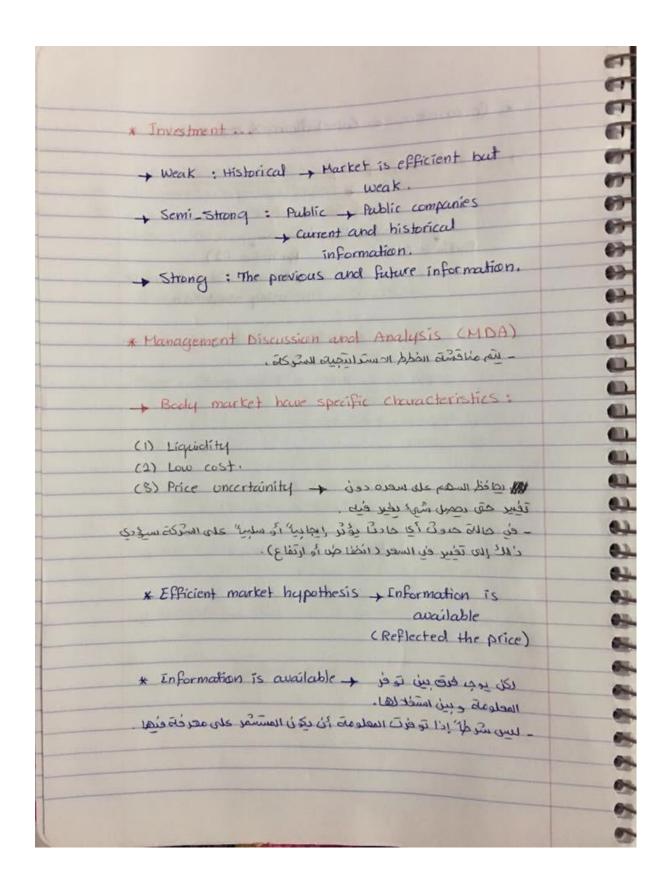


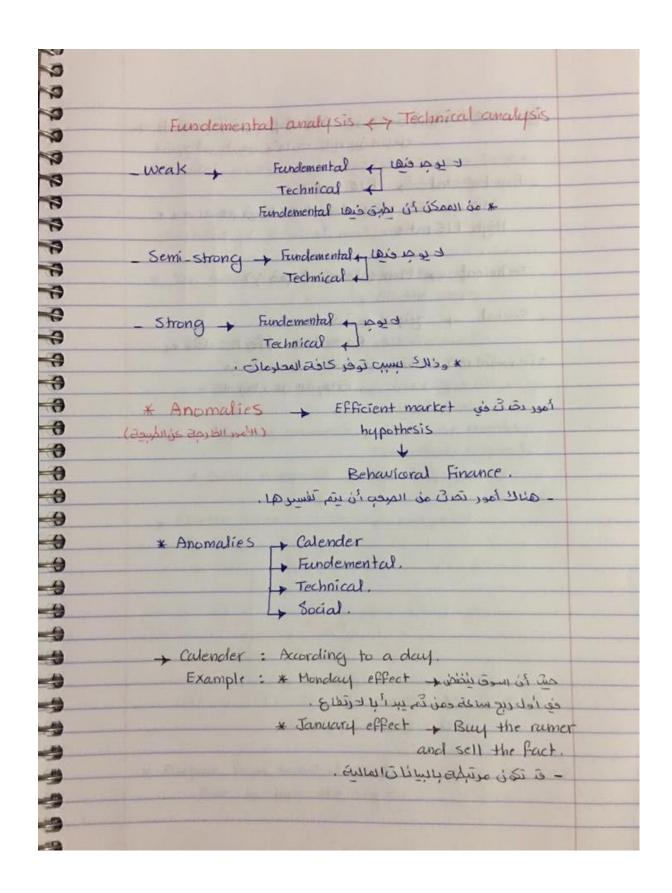


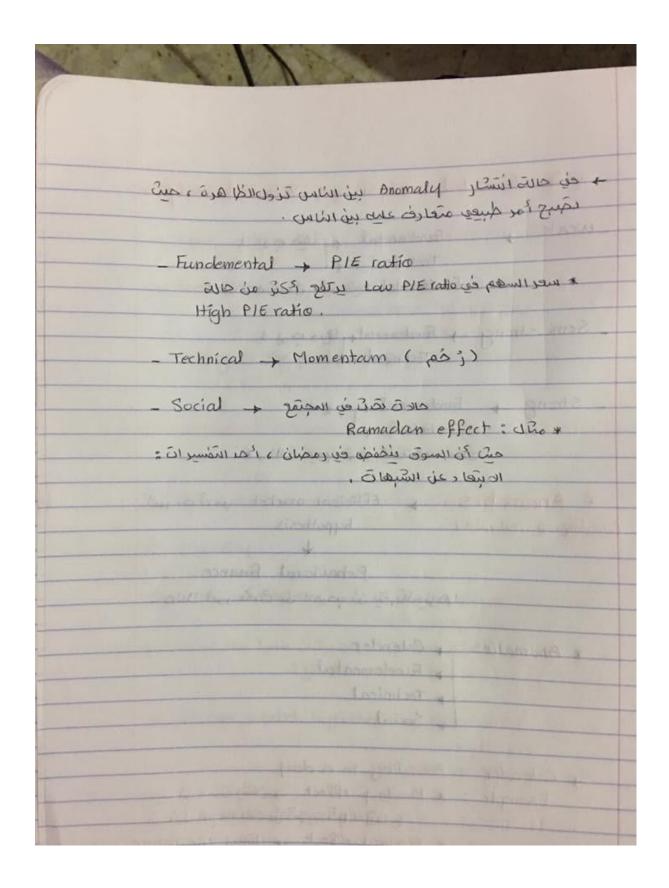
```
+ Question (19):
  Operating profit = $2 m 1 5%.
  tax = 35 %
   20 y. pretax
   Dep = 200,000
   Return = 12% Debt = $4 m
FCF = NI + Dep - Investment - AN.W.C
   EBIT 2,100,000
  - Dep
          210,000
   ERIT 1,890,000
  - tax (35%) 661,500
  Net income 1,228,500
  + DCP 210,000
  OCF $ 1,438,500.
FCF (Firm) = 1,438,500_420,000
            = 1,018,500
             0.12-0.05
          = 14,550,000
- value (Equity) = 14,550,000 - 4 m
            = 10,550,000 = per share.
             # of shower
```

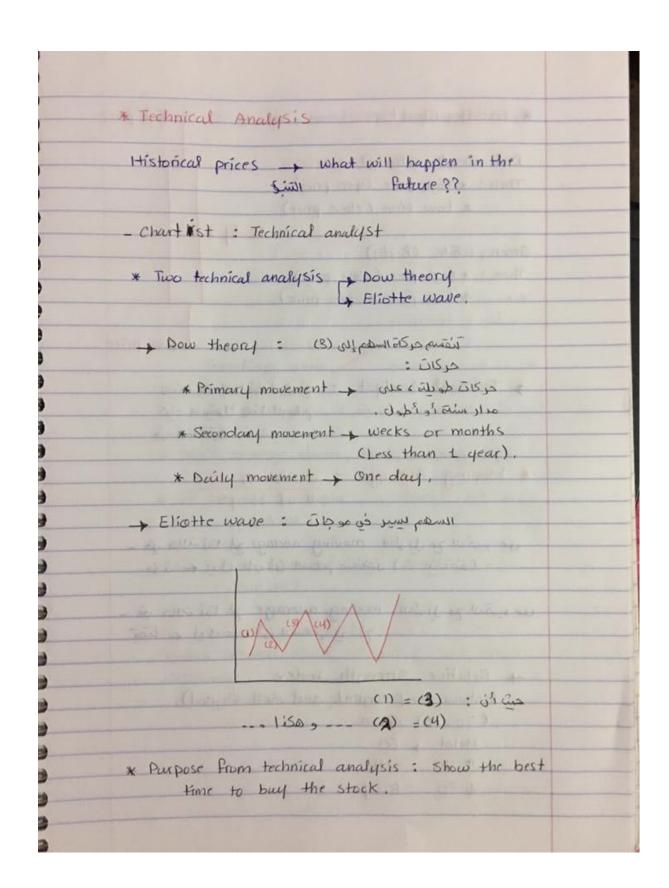


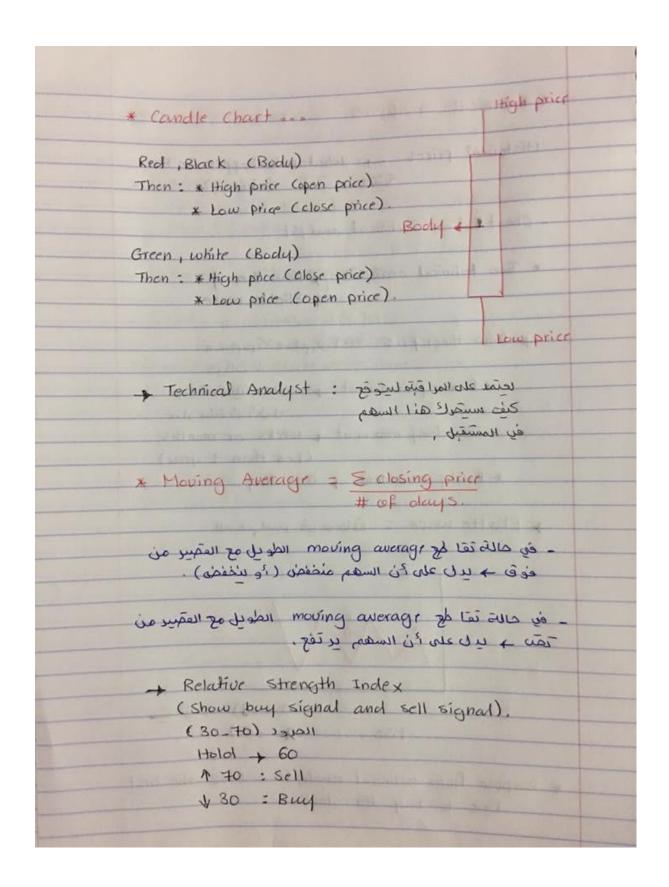


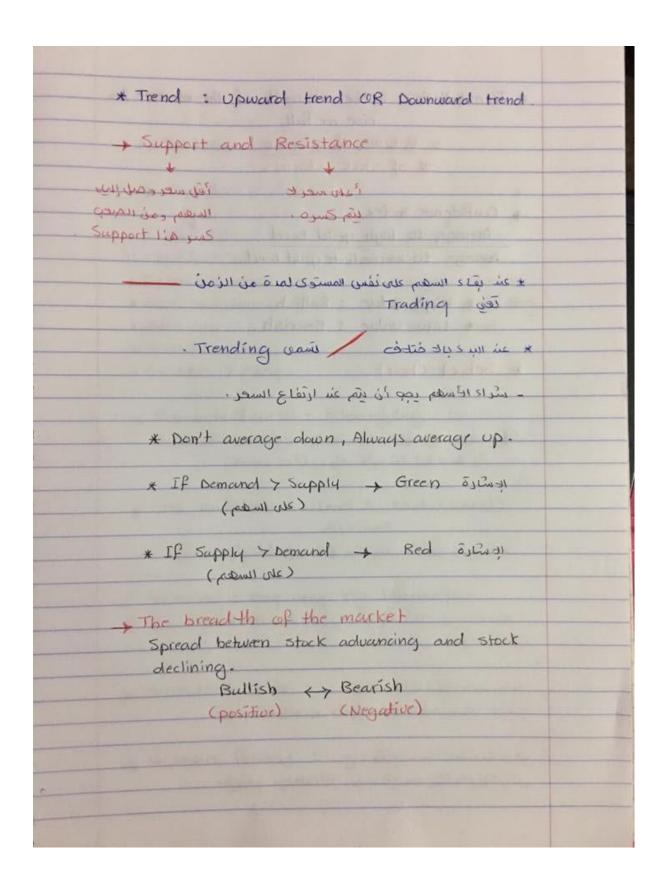


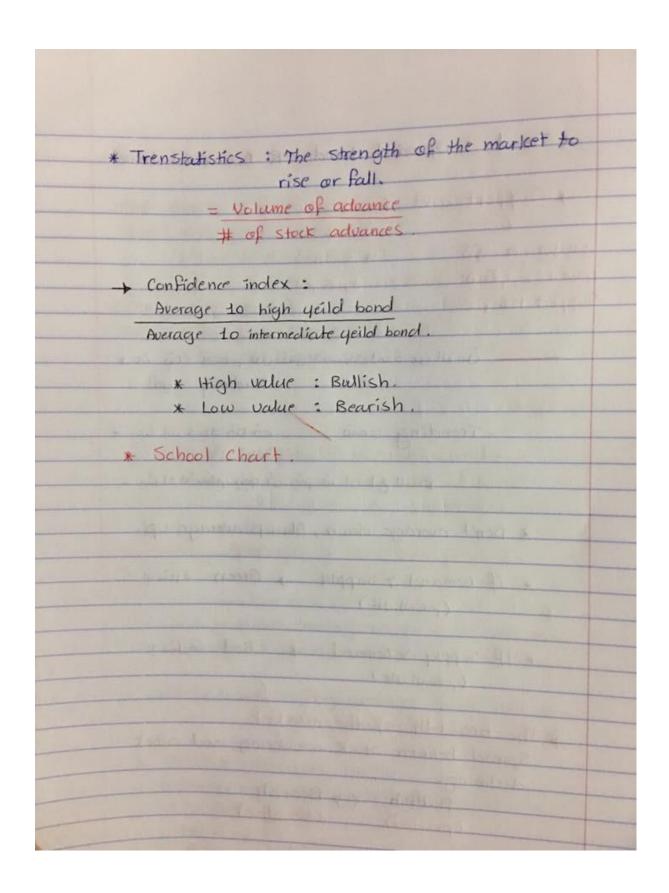




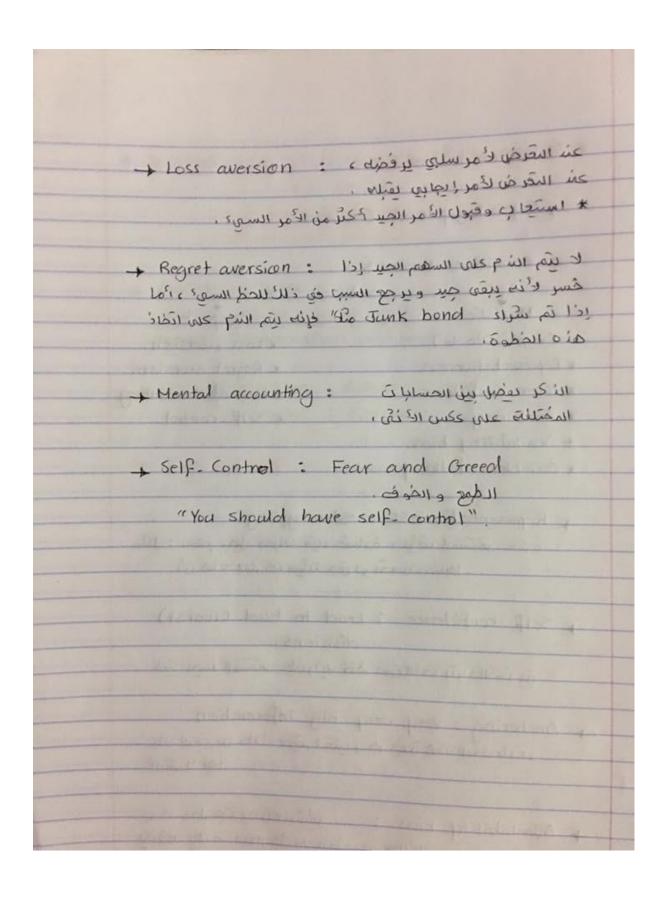




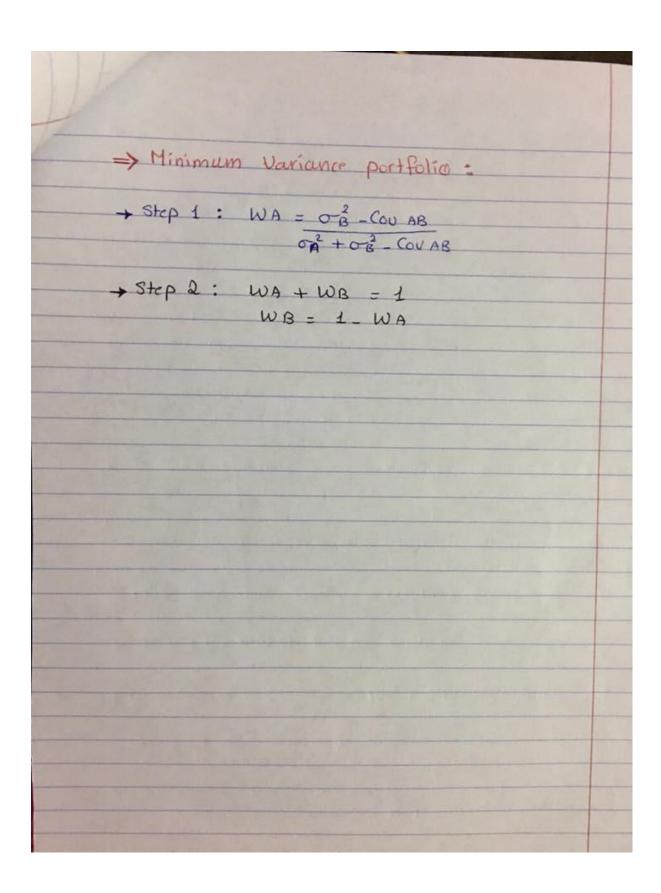


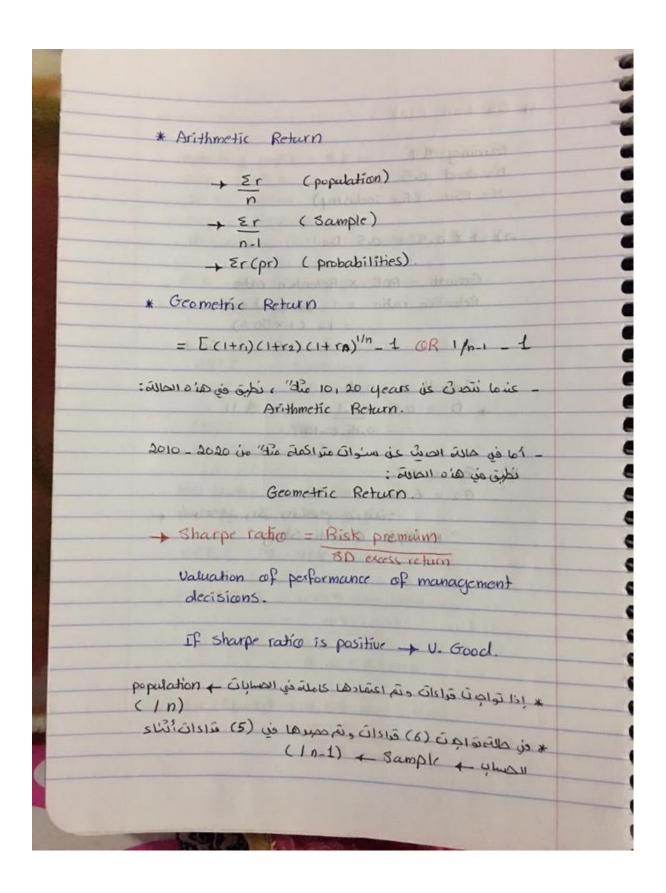


bnance .	a. 2 popular design
→ Sychology and En	notions.
→ Cognitive illusions	a former averaged a
En Physics By March	La se office of the second
Huristic	Prospect
	* Loss aversion.
* Representativeness	* Regret aversion.
* Over confidence.	
* Anchoring .	* Self-control.
* Availability bias.	
* Gamblers Fallacy.	A Self Cooker : Fix
- HAR AREA	
+ Representativeness:	Sterotyping
ارة ، يأخذ المستش كرة	مال : سهم معين حميد فيه من
لو تحسن وطبعها .	أَنْ هَا ٥ السَّرَكَة مسِيِّلَة حَقَى ا
→ Self confidence : L	ead to bad (worst)
	disicions.
الم دون الأخذ بآراء الدّخرين	- حدث دويم المستمر على رايه فق
+ Anchoring : very very	big information.
جزءمن هذه المجلومات و	_ على الدفع عن ذلك عيثم اختيار
	المقسلا بها.
+ Availability bias:	دو مد معلومات و لکن المستثمر
	يكتفيه برهاه المعلومات ولديبحث
· Gamblers Fallacy:	يكن المستثمر أنه سيخفق ربح
Hishly opterns	واكن النيَّجة تكن خسارة م عد

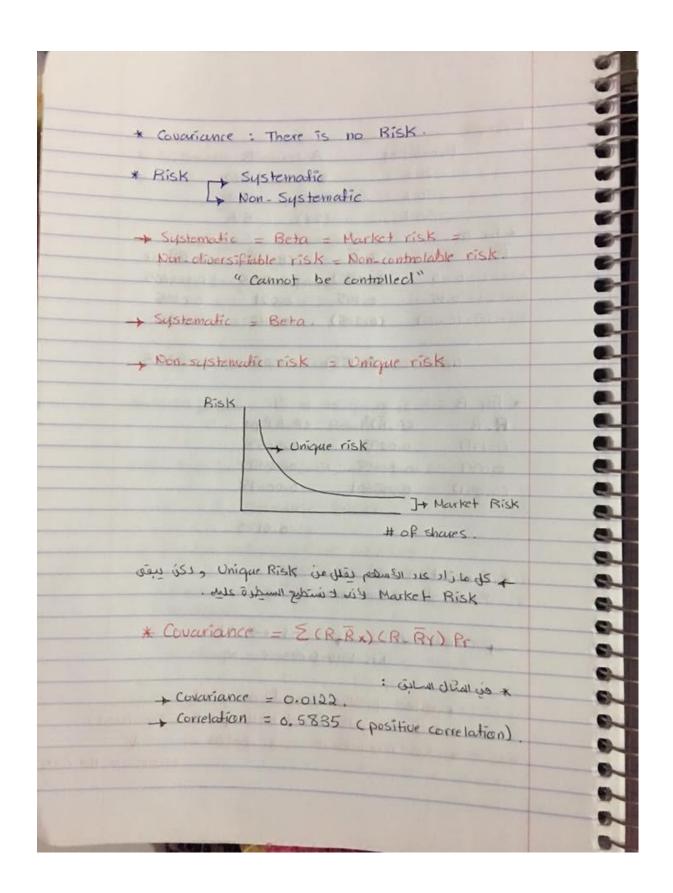


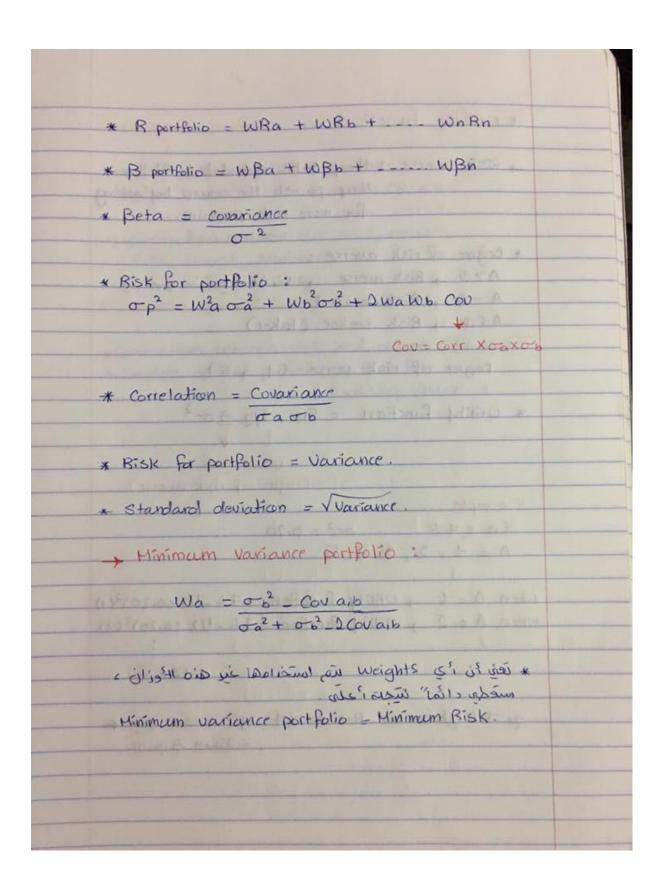
```
* Risk and Return ...
>> Single Asset :
\rightarrow \overline{R} = \overline{z}r (population)
→ R= Er (Sample)
→ R = Er(pr) (probabilities)
\rightarrow Variance = \sigma^2 = \xi (R - \overline{R})^2
- Standard deviation = 0 = Training
- Sharpe ratio = Risk premuim
                    Standard deviation
> More than one asset (portfolio):
 - R = (RAXWA) + (RBXWB)
- Variance = 0 2 WA + 0 2 WB + 2 WAWB COU A.B
- Standard deviation = Variance.
+ Covariance = GAB = E (RA_RA)(RB_RB)
+ Correlation = LAB = COU A.B
                  SDAXSDB
```

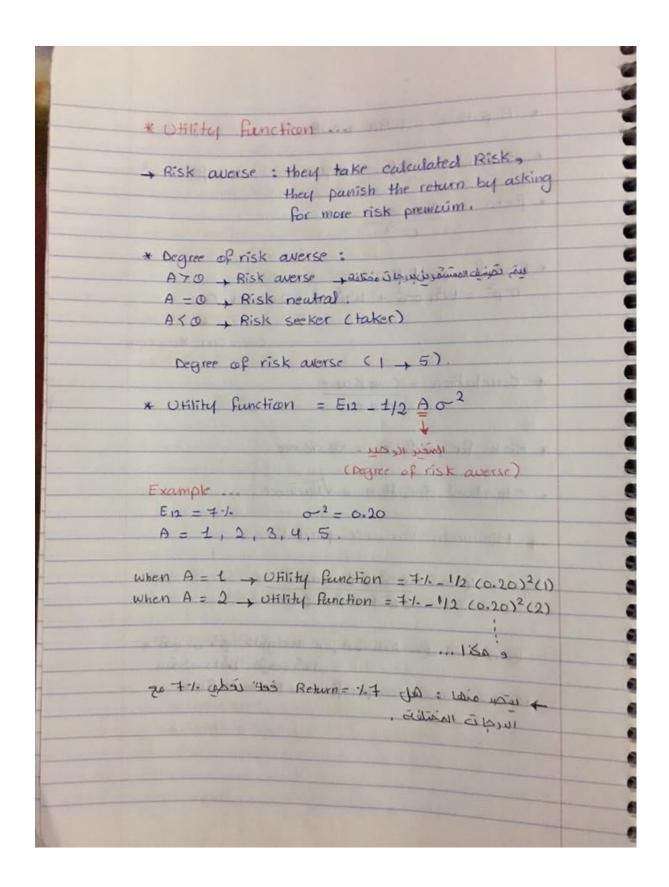


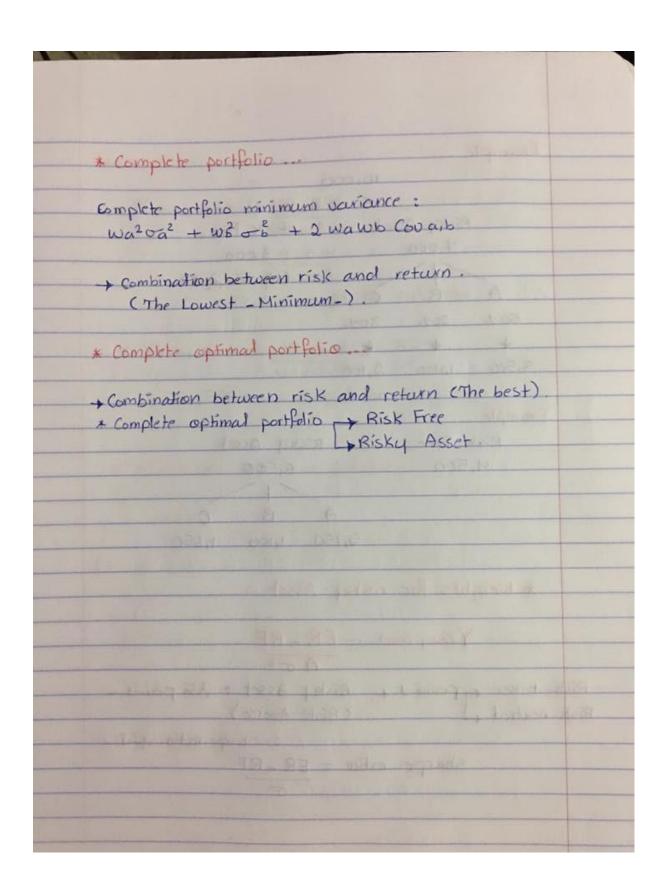


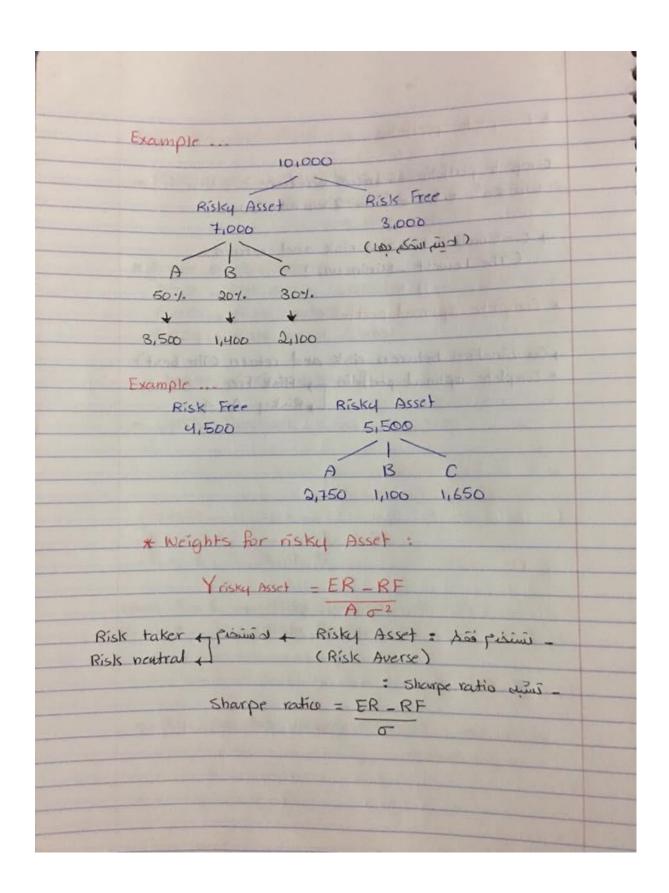
Example	official and want of the sales of	9
Probabili	ity A B	
	16-1. (7-1.)	4
50 -/•	80% 20%	_
80%	(5.1.) 5.1.	
* For A :		
	R-R (R-R)2 (R-R)2 pr	
201×101 = 0-02	(0.055) 0.003025 0.000605	
50% × 30% = 0-15	0.145 0.021 0.0105	
304×(5x) = (0.015)	(0.205) 0.042 0.0126	-
0.155	(0.155) 0.066 0.023705	
* For B:	2009	
R-R CR	-R)2 (R-R)2pr	
(0.171) 0.0		
	0.0049	
	0.00078	
AND AMERICA		
- David Rod	0.0185	
* Correlation a	und covariance	
	same meaning"	
- Correlation	-1 ↔ +1	
HELDER STREET	has boundaries	
To the late of the late of	Marine Ma	
* perfect	positive correlation +1	
* Perfect	negative correlation , -1 (The B	3ect)
* No co	ornelation + zero	1
	Hinimai	170 11
	VIIII MCA	LCC TVI

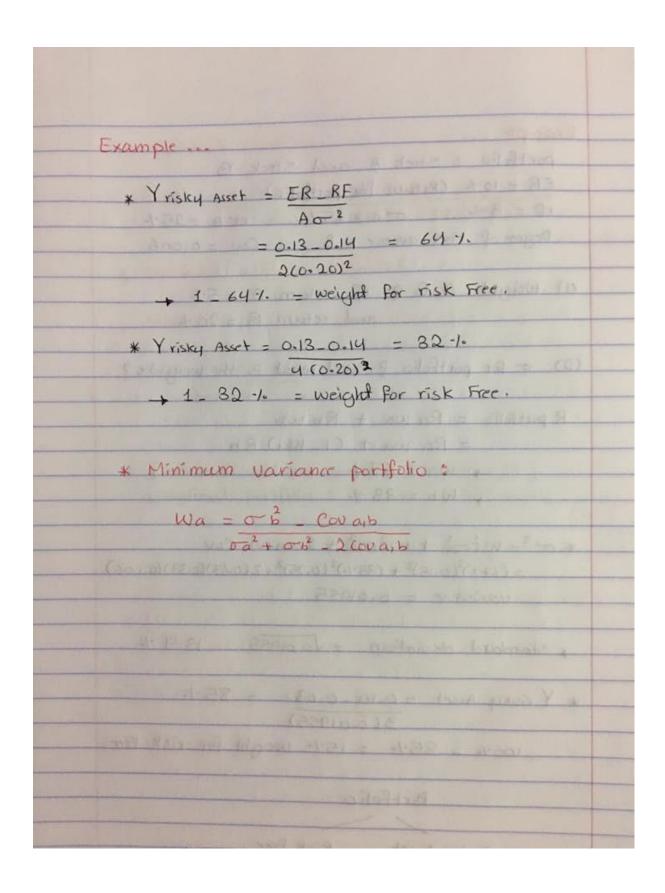


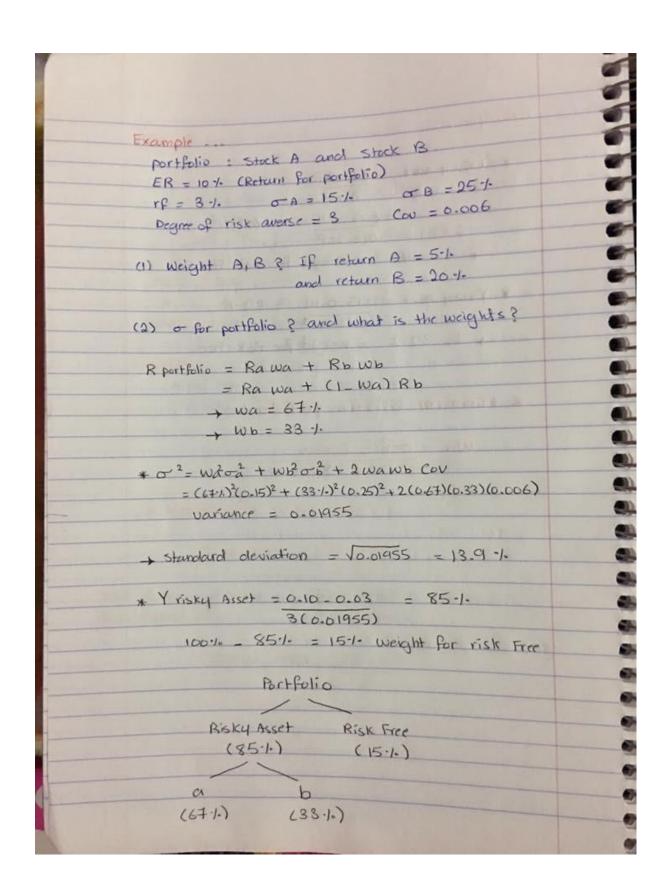


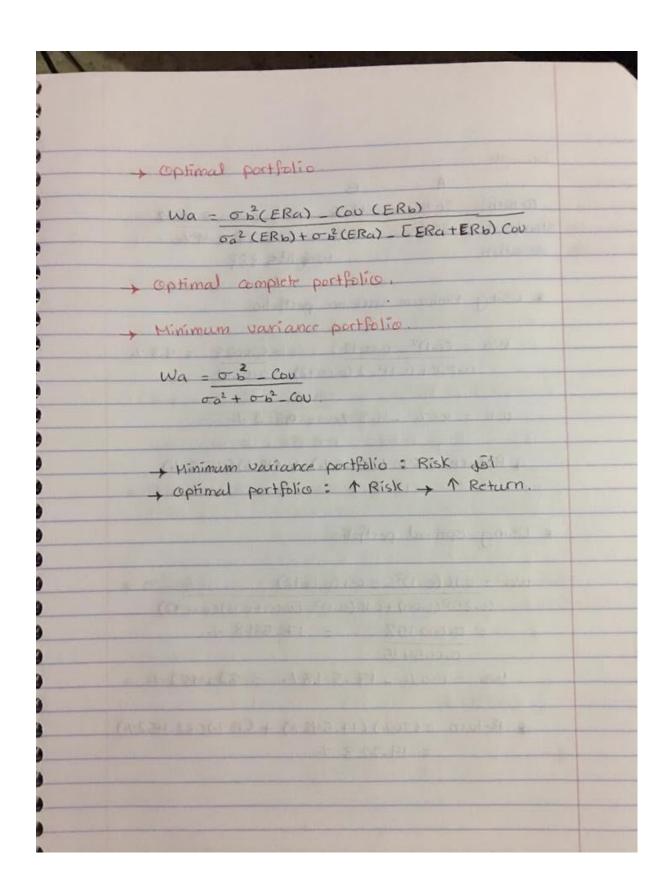












```
Example ---
Return 201. 13 %. cov = 0.00 72
standard 25% 10% rf = 4%
deviation weights ???
 * Using Minimum variance portfolio.
    Wa = (0.1)^2 = 0.0072 = 0.0028 = 4.8\%
      (0.25)2+(0.1)2 2 (0.0072) 0.0581
    Wb = 100% -4.8% = 95.2%
   + Return = (20-1.)(4.8-1.) + (13-1.)(95.5-1.)
     = 13.8 7.
* Using optimal portfolio.
  wa = 0.16(0.1)2_0.09(0.0072)
     (0.25)2(0.09)+0.16(0-1)2 [0.09+0.16)(0.00+2)
      = 0.000952 = 17.548./-
     0.005425
     Wb = 100% - 17.548%. = 82.452%.
  Return = (20-1) (17.548-1) + (13-1.)(82.452-1.)
          = 14.228 -1.
```

	-
Example Minimum and Optimal	
	المعطيات:
wa = 0 b2 Cov Minimum variance	Corr = -0
oa2+ob2 2000 portfolio.	5 a = 0
+ 81.82 = 0 8184 or t	6b=0
* Correlation = Cou	-
бабь	
-0.2 = Cou - Cou = 0.024	
(0.2) (0.6)	
wa = (0.6)2 - 0.024 = 85.71	
$(0.6)^2 + (0.2)^2 - 2(0.024)$	
Wb = 100% - 85.7% = 14.3%	
Thomas	
* Return (portfolio) = (waxra) + (wb xrb)	
= (107. ×85-7.4) + (14.3% ×30%)	
= 12.86 %	
ATRICA (LANGE AND LANGE AN	
* o portfolio = (wava)2 + (wb o b)2 - 2 wawb (Correlation	\
= (85.7% ×0.2)2+ (14.3% ×0.6)2_2(85.1%)(14.3%) (
= 0.124 = 17 /-	
A PLAIS AND AND A LIGHT	
* Standard deviation = Risk = 17-7.	
= 0.29279.	
=0.292+1.	-
A TORRE ADVANCE A	
3 31 801	

```
* Optimal portfolio :
 Wa = 5(0.6)2_ (0.30 + -0.624)
     (0.2)2(0.25)+(0.6)2(0.05) - [0.05+0.25) x-0-024
         = 6.6818 . = 68.18 %-
 Wb = 100% - 68.18% = 31.82%
 Return eportfolio) = 16.36.1.
 Risk (standard deviation) = 21.13 %
* Optimal portfolio - Sharpe ratio.
 Slope = Sharpe ratio = return - risk free
                   o crf)
                  = 50.89 % weight for
                    risky Asset,
 - Wa = Wa Coptimal) X 50.89%
       = 68.18% x 50.89% = 34%
 wh = wb (optimal) x 50.8911.
       = 31.82-1- X 50.897. = 16.18-1.
 , weight for Risk Free = 50.89 %.
     wa
           - Risky Asset,
```