تلجيع فاينس 2 على ركارر " 8" isk and Return \* Return ` العاد ` المائد لأصحاب الأ- ميم بيجي مد شغلسَم خ-1- Dividends أرباح سِم توزيم مد المركة إلا تكوم المركة وبصانة وعندها فانض كاش "مش فكرة تستشر ، شرو ک<mark>ے</mark> جر ہر ۲ \* اذاکام عند استرکه 35 ما طابتور کر 1) ividlends 2- Appreciation of stock price مي حركامت ما يتوزكم , بناك بسابكور ميا لملب علم أ جمعها. الطريقة الثانية الي بوحل مرها Return CE-11 per le reil of the Stackholder IS مثلاً شربيت 1000 مم بد 11 مد شركة مابتوز كم . Vib بعر شنة طار مراسطم 11 بربح 11 ابيو عل حاد السعر  $\Pi$ 

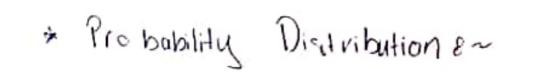
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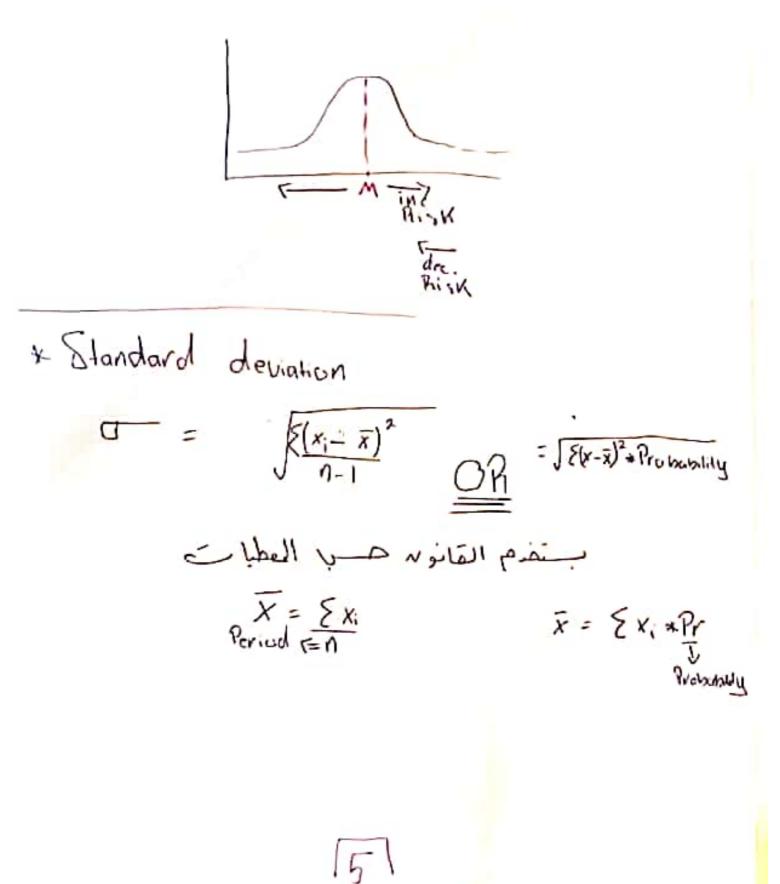
BEG. End. Dividend's JC  
Apple 
$$\sharp$$
 U11.23  $\sharp$  532.17  $\sharp$  5.3  
Wall More  $\sharp$  60.33  $\sharp$  68.23  $\sharp$  1.59  
(Apple =  $\frac{(532.17 - 411.23) + 5.3}{411.23}$   
 $\frac{7}{30.7}$   
(Wall More) =  $\frac{(18.23 - 60.33) + 1.59}{\frac{7}{15.7}}$   
[3]

Range II rent as Risk \* هاب از Hange = Optimistic outcome - pessimistic outrom \$ 5 أنغل إصعال 1 1 إصل

Assel A Assel B Initial Investment \$ 10.000 \$ 10.000 Annual Return 82 Pessimistic 13% 7% Most likely 15% 15% Optemistic 17% 23% Riange => 4% 16% By Righer than A 4 STUDENTS-HUB.com



Risk i sei the and service singe the bus



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Exon

Asset A	Return	Pr	Expected
Pessimostic	13%	0.25	13/-20 25= 0 03.25
Moset likely	15%	٥.٢	16/20.6=0075
optimistic	17% 0	.26	17/.40.25=0.6425
Assel B	Return P	c	E=15% X=7 Er*Pr
Pessimostic	71. 0.	.25	1.75
Most likely	15% 0.1	5	7.5
Optimistic.	231. 0.2	25	5.75
5trp 1	x y ay	X	7 = 15%
51ep 2 	بع		
$\frac{x_{A}}{13/.}$ $\frac{\overline{x}}{15/.}$ $\frac{x-\overline{x}}{-2/.}$ $\frac{(x-\overline{x})}{4/.}$	12 60		-x)*Pr 1.
15% 15% 0% 0% 17% 15% 2% 4%	0.5		)
$\overline{G} = \sqrt{2} = \overline{6}$	.41%	5-	2%
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x <sup>B</sup>	x	×B-x	$(x-\bar{x})^2$	Pr.	16%
7%	15%	- 8%	64%	0.25	16%
15 %		0%	C	G.5	C
23%	15%	8%	L4%	0.25	16%

\$ 32%

$$\overline{B} = \int \xi [x_B - \bar{x}]^2 R_F$$
$$= \sqrt{3.2} = 5.6$$

تغیر ال ۲۹۹۲ Right الحک کل ماکانت که ۲۰۰ کبر یغی ال Rigk الجر ن ماکانت که ۲۰۰۰ مانجر یغی ال Rigk الجر ن ماکانت که ۲۰۰۰ مانجر بینی ال ۲۰۰۰ الجر i The Firm should invest in A

7

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\* Coefficient of variation (CV) indig train II Hassel II aire XBiff I fi Liter II x satis Ex: Return Risk Asset A 15% 1.41% Asset B 20% 5.6% CV= J  $CV_{A} = \frac{1.41}{15} = 0.094$  $CV_{B} = \frac{5.6}{20} = 0.28$ تر ماكام ال U.J أجفر بلوم الخار أمرًا : Inupst in A

8

على ديكامر

Ex2 or Target=> Invest if C.V. lower than U.g Years Bey Price End Price Dividends 36.5 3.5 2013 \$ 35 34.5 3.5 2014 \$ 36.5 2015 \$ 34.5 35 И

Calculate J?

Step ! [Nrwold] (F visite le return II y 2. ã. IU <u>Years</u> <u>return</u>(x) 2013 14.28 2014 4.1 2015 13.04 Step 2 X yes  $\bar{x} = \sum_{X} = \frac{14.28 + 14.1 + 13.04}{-10.47} = 10.47$ 

Step 3  $\Box = \left[ \frac{\xi(x - \bar{x})^2}{x - 1} \right]$ 5= 5.5%  $C.U = \frac{1}{r} = \frac{5.5}{10.47} = 0.53$ 0.5350.9 Invest 1 Uploaded By canonymous Scanned by CamScanner

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\* Portfoliu Risk and Return

$$F_{\text{portfull}} = \sum_{i=1}^{n} (w_i + r_i) \\ J = \sum_{i=1}^{n} return of each single Assetweightproportion
$$F_{\text{regular}} = \sum_{i=1}^{n} \frac{r_{\text{regular}}}{r_{\text{regular}}} = \frac{r_{\text{regular}}}{r_{\text{regular}}} =$$$$

لله لما يكوم عنا كم معاكر ما ما يكوم المحل Peturn بال معاكر معاكر معاكر المحل المحل المحل

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al min used	x y A f	* 1/2121 ~ 8	
yle	Risk B	الإكباه بكوم	
Vear rx 1 10% 2 12 3 14 4 16	ry 10% 12 14 16	~ 8 JC (xy 0.6210+0.5*	= 12 = 14
5 ig	18		= 16 = 18
Try = Erry	= 10	+ 12 + 14 + 16	+18
$\int \frac{y}{y} = \int \frac{y}{y} \frac{x}{y}$	$r_{xy} = \frac{1}{5}$	14%	
	· Portfoliq	ل مکو <i>بر</i> عند ع	الأ معم
TUDENTS-HUB.com	"He	لتسري في الر Nurl Uploaded	میقا By:anonymou

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ai ve 1 "O" age correlation conficient v 1 ist Risk 2 1 "O" ale a correlation conficient v 1 ist Risk 2 2 1 "O" v 1 ist w Risk 2 2

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2 Le CAPM: capital Asset Pricing Model Is = return of the Asset Estock" rs = RF + Beta (RM-RF) RE=> Risk Free Am=7 Return of the market=7 market Index (Am-RF) => Market Risk Premium Exer RF= 3% Beta = 1.5 Market Risk Premium = 5%  $r_8 = 3 + 1.5(5)$ Beta => unavoidable Thisk فطردان أيحملو فاكل الحالات Total Risk = Diversible Risk + Non diversible = Non Systematic + Systematic Risk = Specific Risk + Market Risk Beta = (-2,2thu been nondivertible 11 beta Market = 1 Risk Total Risk JI man Uploaded By canonymous STUDENTS-HUB.com

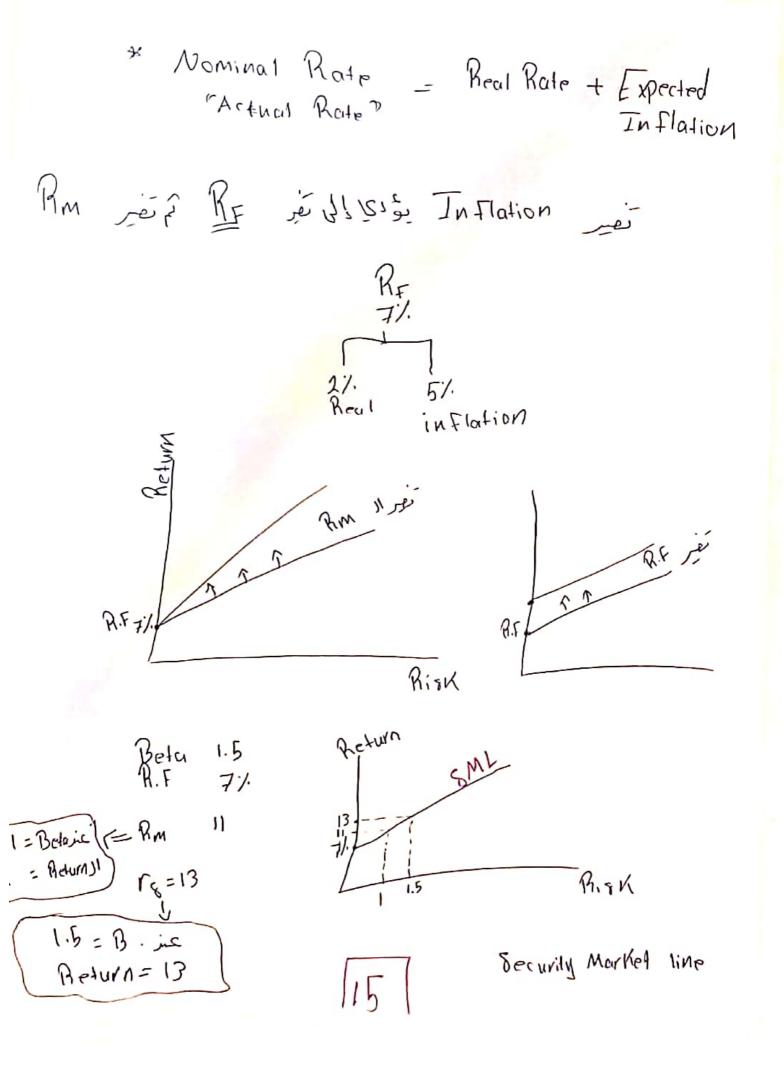
	* Beta Ma		
1 come m	arket Li Areturn Li Ficturn		
	ي بزيد 1		
	Beta = 1.5		
بزير ۲۰۱	is 1 market 11 ji Return	<i>اد ا</i>	
	Beta= -1		
بقل عندي 1	1 market JI JI j I Return	1	
Ex	Beta Portfolio = 8~	E (wi * Bet	a)
A B	<u>Beta</u> 0.82	Total Investment 50,000 40,000	Wi 0.25
С	G.99	20,000	0.1
Ð	1.18	· 60.000	0.3
E	0.89	30,000	0.15

Bata Portfolio = 0.9655

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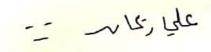
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\* \_وْال : كَيف معلم يَغْير JML





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3

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\* Term Structure of Interest Raters "Eisen Vield to modurity (MTM)

BI Twented Vield curve 2 Flat Keld curve Webs trail [] Normall Yield Curve 67 8 Kar 2 3 Normal : Interest in schort term Tinterest in long term 2 Flat : Short term = long term 3 Inverted : Short term 7 long term ا تعديد ان ليس داماً لدزم مكوم = Vormal LEpectation Theory As investor regulation find but form and find but is a start end in prod متومَع النائدة تزير بالمتعل جدر أورامه مالية form Askssuer alle le áliter vile

M,

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2- liquidity Preference Throng تصعد على قدرة تحويل الأورام المالية إلى كات Risk I about let Return alle lisen mer No Lo State I Liquidity Premium 3. Market Segmentation Theory نصيم السوم إلى شرائح Exer & Trauraner, Pension Industry با سَرَر ا مَرْمَ بَكُور المر وما وما وما وموجع تواجد كا سَ معرم داعاً على على حا البوك \* Banking Industry الم متارا بي متكوم الم Shart عثام بعل عند هم كلن متاح في أي وحب و في فظو عام سولة حالية Risk for Debt securities :a. Default Riser -> Jul me ailai bia b. Maturity Ris K=> RisKILISTicite ( RisK => RisK) يغني ماملي الفرات " robian bis" بطو شروط عام التعمر (" rousion Riser" عشامه ومعروفها مثل معنوج توزيمو على الله الم المع مر التعمر (" rousion" عشامه وموقعاً Uploaded By canonymous Scanner STUDENTS-HUB.com

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Bond Vielder

Current Vield = Annual intered PMT current Price

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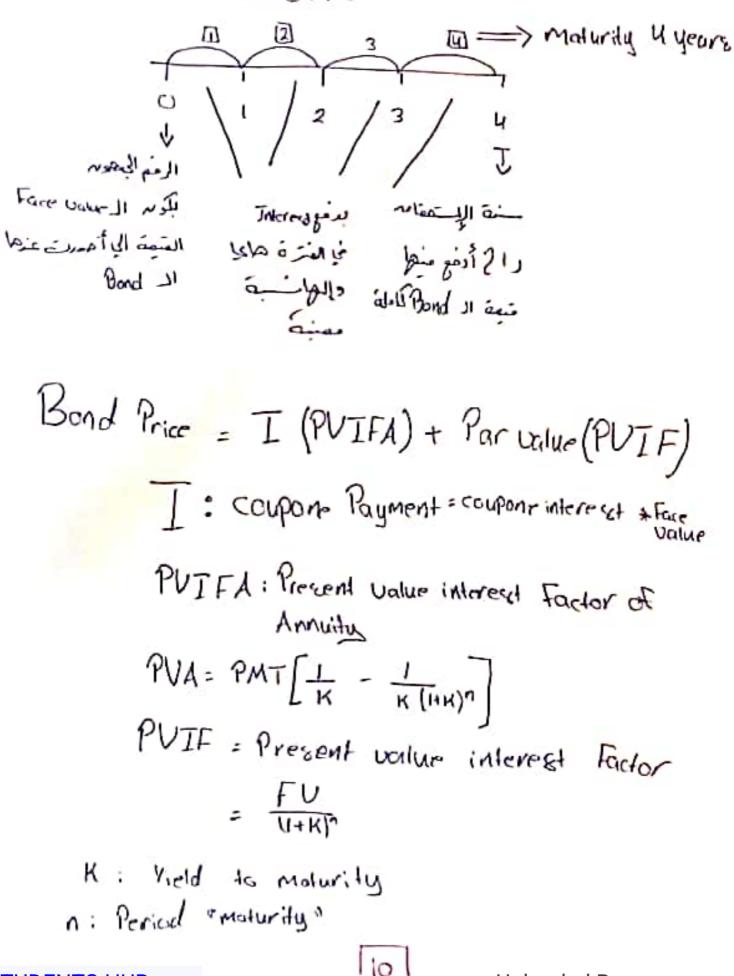
Type of Bond

\* Secured india server for des a-mortage bond indiane power for des b- colletrol bond b- colletrol bond b. colletrol bond c. Equipment truet certificane quip - for the truet certificane quip - the truet certificane c. fquipment truet certificane c. fquipment truet certificane c. fquipment truet certificane c. fquipment truet certificane

LUNSE (Ured unser interioring interioring)
Debenditure bond Sal inter powendiede benditure Bond Uniter Junitic is interioring Debenditure junitic is interioring bond C. Income bond Sal interioring interioring Sal interioring

High Vield bond= Junk bond أكثر نبعله عدد و فطر كبر Thing rate bond بر المرد أعلم المرد العادة عليه بكوم حب الرد المعام العادة عليه بكوم حب الرد لامانة عليه بكوم حب الرد المرد المعاد المعاد المعادة المعاد و عير ثابته بو المرد من أي المركا ثلاً بالدولار بو المعادة في أي ده له بكرم بالدرلار toregine bond الدول الي المر STUDENTS-HUB.com

\* Bond evaluation 82



E. 18~

Coupone interest rate: Yeld to  
A Bond Price = Par Value  
Par value = 1000  
Coupone interest rate = 10%.  
Yield to maturity = 10%.  
Maturity = 10 years:  
PMT = coupone interest & P.U = 100  
PUA = 100 
$$\left[ \pm -\frac{1}{0.1(1.1)^{10}} \right] = 614.45$$
 =  
PU= FU  
PU= FU  
B.P. = 614.45 + 385.54 = 999.99 astroc

# 11

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Ex 282

Vield to moturity 7 coupons interest = 2 allo Bond Aice T Par Value BP >> Discount mà à bal Par Vulue = 1000 coupone interest = 10% Yield to maturity = 12%. Maturity = 10 COUPON PMT = 10% \* 1000 -- 100 Bond Price = PMT [1 - HUHKIT] + FU B.P. = 565 + 321.97 = 5886.9

12

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F, 332 coupune interered > Vield to malurity = 3 allo Bond Price 7 Par Value B.P=> Premium ~8 c- Lier Par Value = 1000 coupone interest = 10%. Vield to maturity - 2% Maturity = 10 years BP = PVA +PU PU= 1000 = 463.2 BP = 671 + 463.2 = 1,134.2

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$$PVA = \xi \underbrace{FU}_{U+Ky} \implies mixed = chrean$$

$$PUA = PMT \left[ \frac{1}{H} - \frac{1}{H(1+Ky)} \right] \implies Equal PMT$$

$$PUA = PMT \left[ \frac{1}{H} - \frac{1}{H(1+Ky)} \right] \implies Equal PMT$$

$$PUA = PMT \left[ \frac{1}{H} - \frac{1}{H(1+Ky)} \right] \implies Equal PMT$$

$$PUA = PMT \left[ \frac{1}{H} - \frac{1}{H(1+Ky)} \right] \implies Equal PMT$$

$$Assel A \implies PU = \frac{5coc}{(1+g)} + \frac{5coc}{(1+g)^2} + \frac{5coc}{(1+g)^3}$$

$$= 10g \mp 1.46$$

$$Semiamalk (1+1) = \frac{1}{2} + \frac{1}{$$

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