2

CIA-2

Leverage :

« reposseents influence / power.

other related fin-variable.

saler & sievenue, Econnings (EBIT), (EPS).

meanvennent of luverage = change in y=y

charge in X=X

operating leverage

しいましいり

000 18

Fin- Sen ercepe

combined wery

OL :

BEP = # C

(onhibution pur unit

BEP = FC x 1000

restudation zortor v9

Partiulars

五 40

Product y

SP

Product X

20

AC 2057E - 00205

50

12 11W2 = 20M

total 1000 cm

Contribution,

20,000

2000.

Fixed cost annous

12000

5000 - 10

Profit (FBIt)

5000

3000

BEP = FC(on hi)

= 15000 =

= 625 cenit

	OL=	conhibution	=======================================	20,000	=>×⇒サ
		EBIT	13.4	5000	
	(1	1/		8000 =	> Y=2.67
		rowe.	9) 25/102	M3000 H	a Reporter
E.	D Pas	tiulare	who we	to to Pro	dult of
doto	tuctur	(manual)			
The same		(20×1000)			
	YC (30 × 1000)	(1183)	Serimores	20,000
	confi	spection appropriate	- SUDROW	Il to the	William Salar
11 21 2	FC	Y 75		- (8	2000
	Profi	+(EBI+)		5	1,000
to the	REA	SIEWEL N=	15000	± '	P
	- proud	CONT	20,000	ideno-f	formed findereys
10 to			ر ماده		(OU \$1, (C)
10	PV.	ratio = contri	los		- 2 10
		11 ×	18		3 = 939
		P= FCOZ,	tie	to very moi	fuordino)
		1 toward			
		ECLPV			2 = 37500
		052		0.4	92
	MOS =	Salls - BEPsalls	00	= 50000	- 34500
Mr.		Saly	o ç	3	000 mill want no
		0002	000,0	= 0.2	5/www 0000 /soft
	OL = (on hi			o = 1.40 hoxis
		132T	000		P (+1289) 19019
4.35			500		
Degree	61=		20021	7 20	= A = 738
0	N	105	OS.		
	FILL ELLER				dnot

OL= CON EBIT CC = CONT EBIT EBIT GC = CONT

O PORTFOLIO RISIC

Total Risk: systematic + renrystemic risk

Le B: [Meauves of external Risk].

pertennère tre expected setten 2 30 of the foll.

portfolio two stocks have a correlation lock .75

PORTFOLIO	weight	Expected	SD
ABC	• 50	14	- 20
X Y 2	.50	. 14	-20

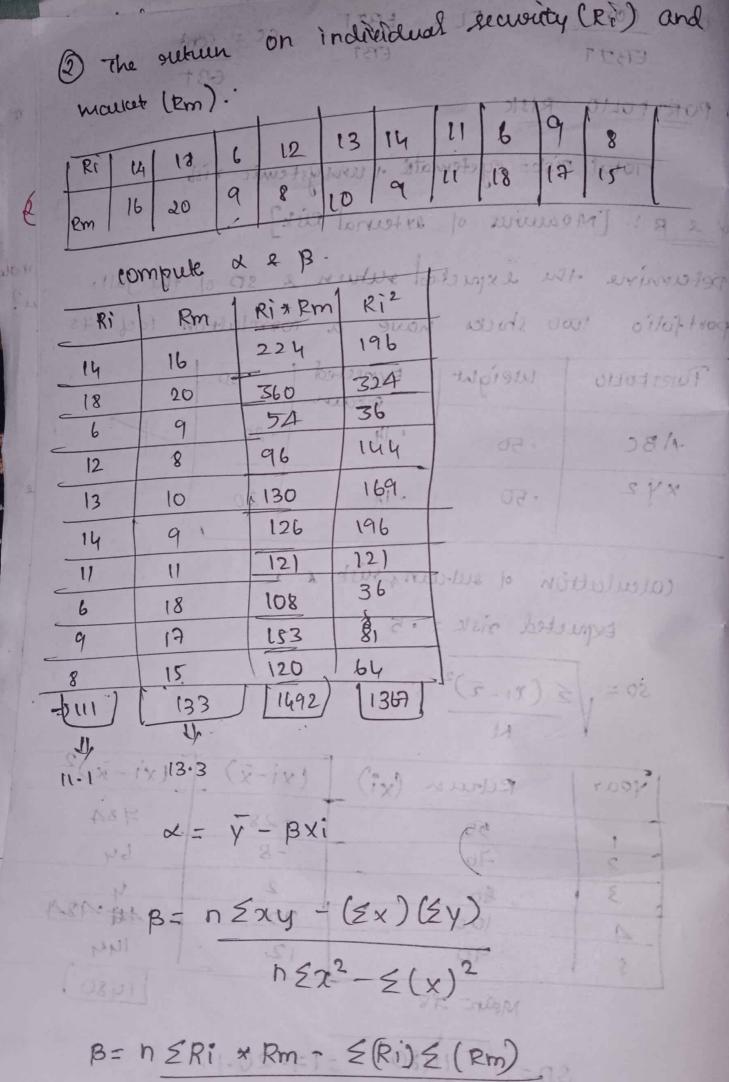
calculation of suburnassisk a;

Expected risk = . 5

$$SD = \sqrt{2(x_1 - \bar{x})^2}$$

		+	
lyear	Retruen (xi)_	(xi-x)	$(xi-x)^2$
1	50	-28	784
2	76	-8	64
3	80	2	4
4	100	22	184
5	90	12	144
	Man 78		11480

Variance in experted return is 17.20%.



n & Ri2 - 5(pi)2

01/1-2 am ro) , 91 (4) 21 acido 1 101 B=10*1492 - 111×113 10 x 1367 - (111)2 B=0.1163 -> <1 son leu aggressive x = 11-1 - (0.1163 * 13.3)

@ Rick of two angles portpolio:

@ Leverage LOLIFICE] Break even point = FC

@ RUK of a arrels:

TP= 1522W22+0y20y2 +2 0200 wzwy x Corney

	M	N
Expected Return (4.)	16.00	24.00
Meight	0.5	0-5
std der (-1.)	20.00	20.00

risk (std den) if 000085 what is the portfolio

a) (or mn = + 1.0,

c) (ormn = 0.00008)

d) cormn = +0.10

e) comm = -0-10

000816

000011

OU. FLI CC

northerention = 13

SHAWA

(717137

harded in I

1500

```
a) vorrelation is (+) ve, cormn = +1.0
  = 670 w2+ 64 wy 12 1>6- 8011-0:8
       op = 20x 0.5 + 20 x 0.5 = 20.1.
 3) Leverage.
      OL, FLICL
    OL = contribution
           EBJT
                                117 120 1 01019VIL
    FL = EBIT
    cl = contribution
                               ें द्वारात हैं कि अंग्रेव
       pared Esty will boxo c + 5 60 5 60 + 5 cms of -
          4,00,000
                          0000008
   Sales
                             ( b) nowter Into smy
                     00.01
                          2,40,000
            1,60,000
                      7:0
    VC
                          560000
            240,000
  tokhi
                           280000
        128000
                                      19 FISHLA
            112000
                            280000
  profit
  (EBIT)
                                      mm rol (0
            48000
                          120000
                                       mm ro) (3
 (n trad
             64000
 EBT
                          160000
                                     (01 mp =
                               01.01- = 0000)
```

0/.0

Flore Plant 01= 2-14 OL = 2 times 1 (CC 2031) 10 (000 100 11) (0000 100) Hos 10 100 (L = 3.75 1 A firms sells its only product at 7-12 wit. Its variable cost is 2-8 unit Porcent sales are 1000 units calculate of in each a) FC is 1000 b) FC is 1800 c) FC is 1200 0000010-1 Salls =12×1000 = 12000 VC = 8×1000 = 8000 sales 12000, Salu 12000 | salus 12000 Es OCYC NC 8000 1c 8000 8000 con/m 4000 Contrib 4000 Foons ! 4000 1st FC 2nd FC 1500 1200 1000 EAST 3000 (Proff) 2500 BIT 2800 (Protit) (Profit) OL= 4000 = 1-34 | OL = 4000 = 1-6 OL = 4000 = 1-43 2500 3000 2,000,000,3

(5) x Hd has choice of foll.

	2 2 2 3 3 4	2.010	- 440100 WA		
Particulors	plan 1	Plan 2	Plan 3		
Equity Share	6,00,000	5,00,000	2,00,000	Find	FL
10-1- debt	41001000	51001000	81001000	1	77
EBIT	21:20:000	2,50,000	21201000	E.	23
	ALL	4.6			

000002 6

00070

7000

FI = EBIT EBT

		d-0 1	Plan 2	Plan 3	11.5 -3
	10004	Plan 1	21201000	21201000	77.1
	EB31		(5(001000)x	(81001000)x	77-62
	int on dan	(da10000)	(0-1-	104-	nord- A
	240	10000	50000	20000	towwy of
-	@ 107.	0000A	50000	80000	Hian at
		COST 21 27 C	200000	170000	21 27 60
	HBT	2100000		10001 000)	- ALLOE
		3,50,000	2,50,0000	2,50,000	
	ET= EX	21,00,00g	200,000	120000	
	0001	5,019	=1.28	170 000	
		p = 3,00,000	tc 1 (C)	000 NC = 4	
	ol	SP = 7.03	Jul = 000% = J	0 46.1 5	2001 = 10
	Saler	3,00,000 x	3		
	VC.	3,00,00		2,50,000	edusting.
	Contr	6,00,000	F1 -	2150,000	1-12
	FE	3,50,000	21201000 818	2,27,000	toleh -1-0
	EBIT	25000	d CL	= 6,00,000	= 2.67
	Int	25000		2,25,000	
	EBT	225000		T 813	

FC = 3,00,000, . Hebt = 8,00,000 . @ 8-1. calculate

OLIFICE. If the firm decides to double the

EBST how much of a rawing scales would be made

Oh -1- backs?

0 (= 6,00,000 mg Sales 15,00,000 VE 91001000 31001000 contri 6,00,000 FL = 3,00,000 = 1.27 1001 FC 2001 000 10 1000 2,36,000 101000 10 3,00,000 5BIT (+17089) 641000 2,36,000 -Inf > Evaluation investment developed a (8100,000 x8+) dong double some a pointing & 2,36,000 Person day to

Requisales to double profit (EBJ+) = FC+ Dewild GATT

PV ratio

PV ratio = contribution $\sqrt{000}$ Salur

=> 3,00,000 + (2 × 3,00,000)

PV ratio -> 0.40

=> 6,00,000 × 100 = 0.40

151001000

FB2T = 22150000 - 15,000000 = 7,50,000

Tred salus = 2250000 - 15,000000 = 7,50,000

-1. The insales = 4,50,000 × 100 = 50.1.

8 cost of capital (unt-off rate) thurdle rate?

à Retuen expueted by the providers (ie; shareholders, lenders) to the business as a compensation for their works bution to the total capital.

& the expense a company in curs in order to timance îts operations and investments.

a useful in evaluation of 15 vestment options

(12 cm)

Signifance of the cost of corpital:

a Evaluating investment decisions

a Deligning a timm's dust policy &

a Appraising the tin- performance of top myon Dur sales to double profit (E)

(9) Pennechial debentures:

value of debenture,

Nd = A -> Annual int-amb

EPOT 5 221 50 (000)

A deb holder & to receive an annual into of 2-100 pr peuphial on his debt of 2-1000 (alculate tere value of dobtenture if sieg rate of return.

0 000 070

1) of 15 of 15 of 100 100 181 - 000 07 16 = 1,002 hut 11) 8.1.

iii) 1040 = 001 × 1000 001 = 1501 01 .1.

Vd=A-)Any 7 -> Expect rate interior of boil

Mitaigna Warrens

A= 100

a) 15-1. Vd= 100 × 100 = 666.66

5) 84. Nd = 100 = 1250 ming total C-14

1) 10-1 - vd = 100 = 1000.

Irredemble debenture: 8=11 9 8=2014

Yield of debenture Yd = Ai x 100-1. MPd 14 2 MA

Ai -> Annual int Mpd-1 Market price of debt 8 (008 - 0001) +00

a) yd =?

A = 1000 int @ 10-1. per annum. MPd= 800 38 HOP = 310001400 -

Ai=1000 x 10 = 100 \$10081 (187) (ST)

MPd=800

19 = VI = 100 × 100 = 0.152 × 100 MPd 800 Too SI V 0 001 = 10.

ne 5

1(008-0001) + NN = NN - 11(0-1) + 14 (0-1)

Redemble Debunture yield to makeity Ym = Ai+ (F-P)/n (F+P)/2 F-) Face value 001 x 501 2.64 1.21 (6 P-) Mitch price. Ores - 001 364 .. 168 G Ai-> Annual int. aunt. 1001 - 001 - KW - 1-01 (a) Ai= 1000 × 9 ewinades Samebore 4rs=8 le; n=8 P= 800 Y+m = Ai + (+-P)|n HAY LOUTING & IN (F+P) /2 = 90+ (1000-800) | 8 (1000 + 800) 2 = 90 + (200) | 8 = 90 + 25 = 1151800/2 000 =)0-127×100

5) P = 800, $Ai = 12006 \times 12$ => 144. n = 5

Ym =) Ai + (F-P) /n /m = 144+ (1200 - 800)/s
(F+P)/2 (1200 +800)/2

$$= 224 = 0.224$$

$$= 22.4.1.$$

c) P= 800.

h=5.

For Rik of two assets Postfolio:

Expected section [-1.] 16.00 24-00

weight 0.50 0.50 steendard deviation 20.00 20.00

what is the postfolio suisk [variance] if

6) cormn = -1-0

c) cormn = 0:00 to lammed c. A sh d) corm n = +0:10

e) cormn = -0.10

reaceptued debenburg :

σρ= / σx w2 + σy wy + 2wx wy σx σy = σxwx + σy wy op = 1.

FORMULAS .

(Lerrenage

suly - 11c = contr

OL = confibution

EBIT

FL= EBIT

ce = contribution

Sales E) VC

(contried) + 14 = MP3

(-) FC "ERIT - TI

(-) Int x 10-1-1,

For doubling the FBIT = FC+ (2 pendend BBIT) C (008 1-500) py Ratio

offe a way you (to

Py rates = contribution & 100co. 44 00 - 11 Sales 1-7 graphs to to to 19

New EBIT Pad sales = New EBIT-achial rales

it Exmineral dive oils tong som is made 1 ced sceller Ed. actual sale

2) Percephial debentione:

Vd = A -2 Annual int and i -> Expected rate of int

a Experted each flow:

Prob	callflor	Proh	1 coun
6.1	10	0.3	30
0.2	20	0.4	40