```
Assignment -2.2
   1400 : (50 FO - 1400) ×10 00 + +6,50,000
    1200: (GOZO-1200) X1000 = +220'000
      1560: (2050-560) X1000 = +4,90,000
      1600: (2050-1600) x 1000 = +4,50,000
      1800: (2050-1800) ×1000 = + 2,500,00
      2050: (2050-2050) x1000 = 0
     2200: (2050-2200) X1000 = -1,50,000
     2300: (2050-2300) X1000 = -250,000
    2400: (2050-2400) x1000 = -3,50,600
 3) This Put-Call Passity.
   C=20, P=5, So (current paice) = 130, K(stanke paice) = 120
    T = 1 year.

20 - 5 = 15 = 130 - 120.8
         120e = 115 => -t-log la (15)
                 91. In (120) 0.0426
       +> \( t = 4.26 \)/, post annum
5) a) long-frommand contonact: payôff: ST-Fo

ST > terminal asset parice. Fo > formand parice:
   b) long-Eusnopean Put option: payoff E-max (Fo-ST,0)
         > Tesiminal Value = (ST-Fo) + max (Fo-ST, 0)
```

> Tesiminal value = (3-Fo) +0. - ST-Fo Tesiminal value = (5- Fo)+(Fo-St)=0 · Terminal value = max (Sr-Fo.0) & :. > Prévalue = Call value.

Long position

P/2 = [closing - opening ] \* contract \* Number of contracts

short position

P/L = (opening - closing ) \* contract \* No' of size contracts

P/L = (opening - closing ) \* contract \* No' of contracts

a) corn futures

-> long position.

P/L = (\$5.80 - \$5.20) x 5000 x1

= \$2000 (profit).

b) coffee futures

→ short position

P/L = (\$1.50 - \$1.40) × 37,500 × 1

- \$7500 (profit)

c) SPI200 futures

-> short position

PIL = (7000-7800) x A\$25 x 40

=-A\$ 300,000 ( locs)

d) stain less steel features

-> long position

PIL = (12000 - 15000) x 5 x 3

= - RMB 22,500 (loss)

Bisfuture contract and stat contract differ only in when the deal is done, In future contract we buy sell a commodity after a time period listed in contract Esheriers it happen instably in spot contract ", future contracts works on some rules like, where, bons when, how much quartity is delived, and also need to boy margins in making trade rafe & fair and make people follow rules @ i, strick foice = \$10 he will get posofit iss if underlying. premium = \$ 3 at time of that time because of premium &3 are want stock price go \$33 below \$37 iis same as above, we want stock in ITM option ( Stock price & \$37 ing Profit = max (40. Sp)-3 sq = stock price Product -3 - 1 Stope + Ct 37 40 -> ST

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