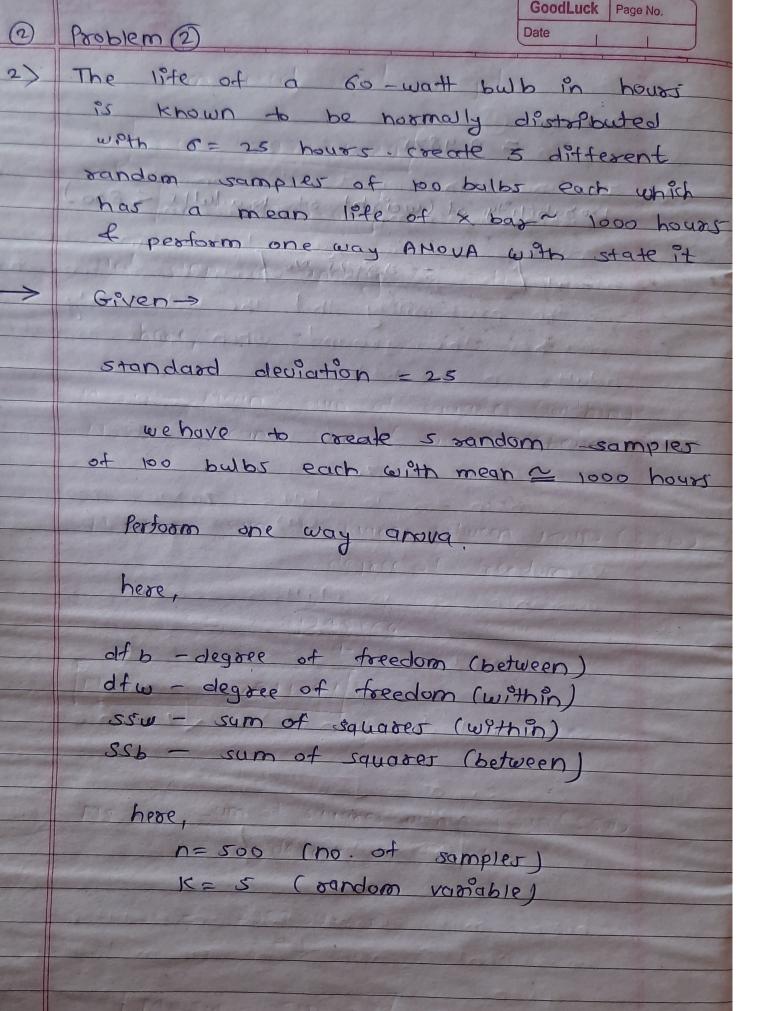
1011 Problem (1) Idibu adi bu manan Course contraduction phones admin solution and Of the maximum weight that an elevator is an apartment complex can accompdate is 800 kg. The average adult weight be about 70 kgs with a vasiance of 200 what is the probability that the lift safely reacher the ground when there are lo adults on the lift? - Given & Land Mount Mean = 70 .. mean for 10 adults = 70 x 10 = 700 Variance = 200 6.8.4.6 variance for 10 adults = 200x 10 = 2000 we know, while I want to Standard deviation (6) = Variance : 0 = 12000 6 = 44.72 here, max weight that an elevator is an apartment complex can accomodate is

given

i.e Boo kg

It means, If the weight > 800 kg then the elevator unsately reach the ground but propule want probability of lift safely reaches the ground in P (weight of bodults < 800 kg/ 7 = se-4 1 alle 1still the first utilianding of made moder = astandard score se = lobserved valuelit 4 = mean o = standard deviation Z = 1 800 - 700 201010 7 = 2.24 P(voght of to adult (800)) 0.4875 M= 700 N=800 2=2.24 2=0 · p(buight of 10 adds < 800) = 0.5 + 0.4875

I a dha boursen be should ad stopped of thousand of award or = 9,9875 Probability of (weight of 10 adults < 800) = 38.75 % The tell the relative of the second Line of the second of the seco GAMA BOST ROPHONDS LANDROPE and the company of the state of not wanted Albanding added as he Marine Ma Comment of the control of the control of THE COUNTY WAS TO BE SHOWN IN English State of the State of the Standard Composition of the maps of the (did that and only the langer of the a Contability of ensuring 36 months of the - Constact to seal to delle



The state of the s
degree of treedom (dfb) between
POLESCHE WAR
= k-1
The property of the property o
dfb = 4
Les to the transfer to the top
degree of freedom within (dfw)
= n - k
= 500-5
did (10) (10) df(0) = 495
MITTER - MEGET SUM OF MONDERS PERFORMED
As the sample is too large it is very complicated & difficult to calculate &
complicated & difficult by coloulate &
ist very time consuming
so we use excel for calculating sowe
SSB
14-1185 = 3 (817)
-> here mean of each sample is
$\overline{x}_{i} = 1000$
WEZ 730/3 1863:13 CHOOME TO MILE WILLIAM
X3 = 1 999.3 55600
X4 = 1000.8
X5 = 1002.0
The part of the pa

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from extel sheel we get ,
  55W = 292239.29
    BSB = 31245.64
New step is finding F- ratio
    (with) did his country
  here In
MSSW - Mean sum of squares (within)
MSSb - Mean sum of squares (between)
is the spend of the states of the
MSS b = sum of squares between 9204PS (556)
      degree of foredom
  31245.64
MSSB = 7811-41
Mssw = sum of squares within 9 soup (55w)
           degree of freedom
      = 292239.29
           495
   M55W = 590.38
```

fond F= MSSb MSSW = 7811.41 590.38 Local of wind known of their F = 13.23/ Now, find controle value using F-table, +(4,495)= 2-3719, consented a supplied the hence, Fullye > C.V i.e. 13.23 >2.3719 hence reject Ho! The super state of the super s Rejection Region 6. 6, 15 13.23 Fratio 2.37