5 12 2022				
	Expe	RIMENT > 11		
AIM:				
EXPERIMENT  The average retyphoid organism.	no. of days be pourisms along exportment be your cond	y mice ino Dith their is given beli		strains of strains of mice involved whis of this data
No. of mice Averge ( y; 8.0 ( g;		8 C 6 8 13.5 11.5 \$.96 3.24	D E   11   5   11.2   15.4   5.64   3.64	
THEORY:-  * The ANOVA  Source of Variation  Treatment  Execution	V	Degres of Trecdon	Mean Sum of Javares SSTYK-1=MST SSSD/NK=MSE	Variance Ratio (F)  F= MST~F MST (k-1,N-K)
Total	TSS	N-1	treatment every due to treatment due to every	# MST>MSE
Now, yi. =	Ti => Ti =	hủ ·yi.		

```
Also, C.F (Correction Factor) = G2
        where, G= Grand Total
       R.S.S = $ & yij2 = \ ni(si2+ yi)2
Thus, T, SS = R.SS - CF

S.S. T = E Te - C.F
          3 S.S.E = T.S.S - S.S.T
    CALCULATION:
    Here the null hypothesis. Ho = 4= 4= 4= 4= 4= 45 homogeneous.
  against Hi. At least two of the means are different

Let, Ti. be the total the ith strain of typhoid & G = i \( \tilde{L} \) Ti. =

then
  then, Tio = ni. yis
      T_A = 10 \times 10.9 = 109
T_C = 8 \times 11.5 = 9.2
T_B = 6 \times 13.5 = 81
T_0 = 11 \times 11.2 = 123.2
T_C = 5 \times 15.4 = 77
    G = ¿ETi = (109+81+92 +123.2+77) = 482.2
    C.F = G^{2} = (482.2)^{2} = 5812.922
   \frac{n}{2} y_{i}^{2} = \frac{ni(3i^{2} + y_{i}^{2})}{2 \cdot 10((12.75)^{2} + (10.9)^{2})} + \frac{6(5.96^{2} + 13.5^{2})}{6(5.96^{2} + 13.5^{2})} + \frac{8(3.24^{2} + 11.5^{2})}{5(3.64^{2} + 15.42^{2})}
    R.S.S = 8237.7299
    T.S.S = RS.S - C.F = 8237.7299 - 5812.921
= 2424.8089
Me Balus
```

$$S ST = E T_1^2 - C.F$$
 $= [(109)^2 + (80)^2 + (192)^2 + (123.2)^2 + (77)^2] - 5812.91$ 
 $= 92.313$ 
 $= 92.313$ 
 $= 92.313$ 
 $= 92.313$ 
 $= 2424.8089 - 92.313$ 
 $= 2332.4959$ 

## ANOVA Table

Source of Variation	Sum of Square	Dyrus of Frudom	Mean sum of square	Varianu Ratio (F)
Treatment	92.313	5-1=4	MST= 92.313	F=MSE MST
			= 23.07825	= 66.64274
EHLOH	2332.4959	40-5=35	MSE = 2332,4959	= 28876~F(4,35)
	12 616	A 12 1000	= 66.64274	14 pd 10 1 4 ST
Total	2424.8089	40-1=39		

## RESULT:

The tabulated value of F(4,35) = 2.65 Since, cal F > Tab (F(4,35)

Therefore we may reject the null hypothesis at 5.1. level significance i.e., atleast two of the means are