```
A= 100.07, 90.6, 103.45, 95.7, 110, 125.28, 121.32, 114.46
B= 90.54, 105.05, 84.15, 84, 92.7, 100, 88.45, 77.33
C= 108, 107.25, 92.46, 105.3, 83.5, 100.48, 80.24, 97.08
mean of A i.e. A'= 860.88/8= 107.61
mean of B i.e. B'= 722.22/8= 90.28
mean of C i.e. C'=774.31/8=96.79
A-A'=-7.54, -17.01, -4.16, -11.91, 2.39, 17.67, 13.71, 6.85
B-B'= 0.26, 14.77, -6.13, -6.28, 2.42, 9.72, -1.83, -12.95
C-C'= 11.21, 10.46, -4.33, 8.51, -13.29, 3.69, -16.55, 0.29
\operatorname{var} A = \sum (A - A')^2 / n
   =1058.173/8
  =132.27
therefore, similarly
var B=70.83
var C=98.81
FIRST: lets Assume For,
for Drug A and Drug B,
H0=var of Drug A = Var of Drug B (Null Hypothesis)
H1=var of Drug A > Var of Drug B (Alternative Hypothesis)
Now:
F-stat. =Var of Drug A/ Var of Drug B
     =132.27/70.83
     =1.87
Lets assume....Significance=0.05;
Degree of freedom for Drug A(Dfa)= n of A-1= 8-1=7
Degree of freedom for Drug B(Dfb)= n of B-1= 8-1= 7
then.
F-critical (0.05,7,7)=3.79
                             (using online critical value calculator)
as F-critical > F-statistic,
i.e. F-test<F-critical(0.05,7,7)
we do not have enough evidence to reject Null Hypothesis
so we accept the Null Hypothesis.
```

i.e. var of Drug A = Var of Drug B

```
Second:
for Drug A and Drug C,
H0=var 	ext{ of } Drug 	ext{ A} = Var 	ext{ of } Drug 	ext{ C} 	ext{ (Null Hypothesis)}
H1=var of Drug A > Var of Drug C (Alternative Hypothesis)
Now:
F-stat. =Var of Drug A/ Var of Drug C
    =132.27/98.81
    =1.34
Lets assume....Significance=0.05;
Degree of freedom for Drug A(Dfa)= n of A-1= 8-1= 7
Degree of freedom for Drug C(Dfc)= n of C-1= 8-1= 7
then,
F-critical (0.05,7,7)=3.79
as F-critical > F-statistic,
i.e. F-test<F-critical(0.05,7,7)
we do not have enough evidence to reject Null Hypothesis
so we accept the Null Hypothesis.
i.e. var of Drug A = Var of Drug C
Third:
for Drug B and Drug C,
H0=var 	ext{ of } Drug B = Var 	ext{ of } Drug C 	ext{ (Null Hypothesis)}
H1=var of Drug B > Var of Drug C (Alternative Hypothesis)
Now:
F-stat. =Var of Drug B/ Var of Drug C
     =70.83/98.81
    =0.72
Lets assume....Significance=0.05;
Degree of freedom for Drug B(Dfb)= n of A-1= 8-1=7
Degree of freedom for Drug C(Dfc)= n of C-1= 8-1= 7
F-critical (0.05,7,7)=3.79
```

as F-critical > F-statistic,

i.e. F-test<F-critical(0.05,7,7) we do not have enough evidence to reject Null Hypothesis so we accept the Null Hypothesis.

i.e. var of Drug B = Var of Drug C

so, from above conclusions and analysis of variances of 3 Drugs A,B and C respectively they all performed almost same and had the same cure rate approximately.