

Assignment:- 2

Why $n-1$ use in sample variance?

Bessel's correction is use of $n-1$ instead of n in the formula for sample variance and sample standard deviation.

then the population variance σ^2 and sample variance s^2 is approximately equal

$$\boxed{\sigma^2 \approx s^2}$$

that is why we use $n-1$ instead of n in sample variance and sample standard deviation.