Assignment no-2

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Course- Data Analytics

Submission Date- 28/6/22

1.Why Sample Variance is divided by n-1?

From a population (N) we collect some data called sample data(n). When we calculate the mean (x bar) which is my sample mean comes approximately equal to my population mean(µ). Similarly sample variance and population variance may be similar based on the data we selected. Now if we calculate sample variance by dividing n, sample variance and population variance vary a lot. Now the researcher after doing experiment they came to the conclusion that if we divide sample variance by n-1 it comes approximately equal to the population variance. It also works for n-2, n-3, n-4 but it works well for n-1.