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	Assingnment 11
	J
•	Title: Mean, Variance & Standard deviation
	Jenny Variance 4 Standard deviation
•	Problem Statement:
	Write 80387 ALP to obtain
	1) Mean 2) Variance 3) Standard deviation
)	Also plot histogram of the dataset
	Data is in text file.
	Oliver (Alexander) & 1 1000 - mithigh bushnotes
•	Objective:
	To implement 80387 ALP to find solutions
	to mathematical problems.
•	Outcome:
	I will be able to implement 80387
	ALP to find mean variance standard
J	deviation of given data.
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•	Requirements
211-	1) Core 12 200/13/15/170 10 0000 bord (2)
	2) Linux 32/64 bit
•	3) gedit / vi autaus incom
	3) NASM. (100) if the se section of
	5) GDB Town to boat leiters built (
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	paver. The I. have found by Al Car
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	Theory:
19 1 1	Mean = $\frac{1}{2}$ = $\frac{2}{1}$ = $\frac{1}{1}$
	<u> </u>
	Variance = $G_2^2 = \frac{\sum_{i=1}^{\infty} (x_i - \bar{x})^2}{(x_i - \bar{x})^2}$
	1 ASSOCIATION SENTENCE AND MESSAGE ASSOCIATION OF THE PROPERTY
	Standard deviation = $\sigma_n = \frac{\hat{\xi}}{(x_1 - \bar{x})^2}$
	no de sale.
201011	There are n'discrete observations.
	$x_1, x_2, x_3 \dots x_n$
	01
<u> </u>	1) Store elements in an array
	2) Find sum of all elements in array.
	3) Dividae sum by n
	5) Find sum of $(n_i - \bar{x})^2$ for all π_i in the
	array 10. 12 La Maria
	6) Divide sum by n. 7) Store result in [var]
	8) Find sequential root of Evan]
	a) Store result in [Sd]
	10) Print [mean], [van], [sd] using procedure.
	processic.
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-	Procedure printresult:
	D Load given memory location on stack
	2) Multiply by 100.
	3) Pop result in [result]
	4) Convert result to ASCII Format
	5) Print first 16 bytes of result 6) Print '.' symbol
7	7) Print last two bytes of result
	2) Return.
•	Test Cases:
	Input Expected of Actual ofp
	11.50, 21.10 M = 20.21
	13.47, 17.34 V= 87.28 Yes
7	31.47 SD: 9.34
	Conclusion:
	ALP for calculating mean, variance, SD -
	of given data is implemented using -
	80387.
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