	Practical-02
•	Aim - Training neurons with activation functions
	A college professor believes that if the grade
	of internal examination is higher in a class. Then the grade of external examination will also
	then the grade of external examination will also
	be high. A random sample of 7 students
	Input 0.1 0.2 0.3 0.4 0.5 0.6 0.7
	Target 1.2 1.4 1.55 1.75 2.01 2.2 2.35
	Write a fython program for linear regression using a single neuron (with proper activation function).
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	Predict the external marks of 0.15
-	Draw the scatter flot between internal and
	external exam.
	ji.
	· Theory-
	-> We first set an input and output array of provided values
	provided values
	- We create a training function with input and

	target as farameters. We randomly initialise weights assign eta a value, give Etotal a value and assign required envor.
•	We sum an inner while loop till all inputs are covered. We calculate not by taking dot broduct between weights and inputs. Then we calculate actual output by for forming sign function on not.
	Then we calculate error by formula E=0.5 * (d-net) ** 2
	and append it to Etotal for each Horation Then we calculate delta weight by formula
	Then we calculate delta weight by formula delta-weight= eta* (d-net)**2; and append it to weight of each iteration.
	The after the iterations are completed we drive total for every by 7 (no of students/inputs)
	Now we flot the scatter flot dutween interne and external marks.

•	Conclusion:
	We implement anadient descent algorithm for
	We implement gradient descent algorithms for linear regression and flotted a graph for the generated points to infer a conclusion according to the promblem given.
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	to the promblem given.
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