	EXP NO: 10 - INPLEMENTING ARTSES CIAL NEURAL NETWORKS
	FOR AN APPLICATION USING PYTHON - REGRESSION
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	To implement attiticial neural network for an application
	in regression using python.
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	ALGORATHM:
1)	import necessary libraries for model training and date
	generation, state the section description of the section of the se
	agrication integration is socially executed.
2)	croate synthetic regression ato with 1000 samples and
	100 potures
5)	Divide date into training and tost eats with 20% allocated
	to tosting
4)	Initialize and train the MLPRegressor with a maximum
	of 1000 iterations
5)	Print the R2 score for Loth training and test data
	to assess partormance.
	CODE :
	from skleom neural-network import hyprogressor
	from skieson-model-selection import train-test-split
	from skleam datosoto import make - rogression
	import numpy as ap
	x, y = move regression (n-samples = 1000, noise = 0.05, n-footunes = 100)
/	print (" vota shope:", x-shape, y-shape
	x- train, x-tost, y-train, y-toot = train-tost-split (x,y, toot-size=
	shuffle = True, random_state = 42)
MARIL	

clf = MIPREGRASSON (max\_itar=1000) Ob. \*fit ( x-train , y-train) print ( b" R2 score for & Training Doto = 2 clb-score (x-t-rain, 4-train) 3" print (+" R2 score for Tosting poto = 9 clf. score (x-tost, y-toot)4") OUTPUT: R2 Score for Test Dato = 0.968655 8466621529 RESULT Thur implementation of Artificial Neural Network for a application integration is successfully exocuted. The M. Pice and sent assure tragery among the