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	Experiment noi-10
Aim'	"- WAP to implement a fex Algorithm
Resor	rce Required:
	Turboc, naterod, wordpad, paint, stationer
Theo	over - Colore
I	compuler graphics, fean Algorithm Recess
Name of the last	the decorate and the
R	method used to get somilars foilage
One	of the most famous Algorithm for simulating
-71	sich uses Proctales to create a virually
	oppealing representation of fear leaves
Ke-	concept:
	Fractal geometry:
	From exhibit self-similarity, where smaller
pord	th of from Resemble whole fractal geometr
co	phone this proposty, allowing few modeling
0	s complex natual form using comple Reconcive
F	Algorithms.
A -	
	ronsley Fermi-
	The Bornsley fear is specific exchapte
0	water by mathemation Michael Bornsley
14	1988 it uits iterated function system (TFS)
to	genrale Fractal that Resemble a fermin

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3. Therape function stoppen (IFS):-The Barnelet fern is defined by for Affine tronformation, each with an assurably probabily that dictate how often ead Franks is opplier

The bonformations are. Transformation 1: - Produce stem of the fear

Franchismation 2: - Generate the left leaf

Franchismation 3: - generate Right leaf

Transformation 4'- create the smaller leaf

4] Rendering: -To generate fem, a point is initialized , and one of brancformation is Randomly released based on probabilities This proper is Repeated iteratively improveing sealer of paint that come to form the fern shape. The point another phother to make final image

conclusion :-

Fem Algorithm problemony Boroncley Fem domortole power of fractal geometry in simulating nations! forms in ag. Their Applin restends belond wit form to a wide Range of national phenomen, storacing beauty and complexity of nature through mathematical modeling