

 Assignment -10 (35)
Robbem definition: Write C++ program to generate hilbert curve using concept of fractals
Objective: Objective: Objective: Socretilling curve
Outcome: Understanding the concept of Asartals 4 Space filling Curves.
H/w d s/w requirements: -64 bit 0s - At coartor
Theory: Fractals are special corner that show the same pattern in them as you
the same pattern in them as you keep on increasing I zooming on their boundaries This means that there shapes have
the same pattern in them as you keep on increasing I zooming on their boundaries. This means that there shapes have infinite perimeter but can be pot an seatoricted in any area. They actually a notice as in sea-shores.
Hilbert curve is a spectial space tilling curve that has finite but May have infinite length.



Hilbert Curve degree 1:
Pegree 2
Degree 3:
A pseudo holbert curve at degree 'n+' can be generated by simple transformation on pseudo hilphoent corre of degree 'n' as follows:

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same same sotate sotate sotate sotate -> A & PHC of oxdex 'n+1' can be created by Joining 4 PHC of oxden 'n'
Test cases: Input expected of Gog actual of p Sexult degree 1 Pass. Pass.
Conclusion: Thus Using the concept of fractal, we were able to generate hilbert Curves of voxying degrees.