GROUP-B ASSEGNMENT-10 (CO)

Name: Adityac Onkare Patil

Batch: G4 (SE4)

Rall No: 21449

Performance Date:

Submission Pate:

TITLE: Fractals and Curves

PROBLEM STATEMENT: write C++ program to generate snowflake using concept of fractals.

LEARNING OBJECTIVES: To dearn the concept of graphics.

LEARNING OUTCOMES: After completion of this assignment, students will be able to:

1. Implement gractals and cuenes too jorn figures like snow flakes, Hilbert cuenes etc.

3/W AND H/W REPULREMENTS: 64-bit open source Linux or its derenative, open source c++ programming tools usice acc/a++, It creator, Openal.

REFERENCES: 1. Programming Principles and practice using C++, Bjerne Stroustrup.
2. www. 9t. 80.

CONCEPT RELATED THEORY:

A fractal & a house ending pattern. Fractal and Infinitely complex patterns that are self similar across different scales. They are created by seepeating a simple process once and once In an ongoing feedback loop they are usually drawn by recursion for eg. Trees, riners, coastions, mountains, clouds etc. Cantor set, Sleepinski gasket, Pearo curve, Koch snowflake, Hauter Heighway dragon curve, Hilbert curve are some examples of fractals.

ALGORITHM:

1. Start the program.
2. Define the functions for deauring the sequenced fractals In the magniferdow. CPP

3. Include their function names in the headle

4. Apply the concept of fractals and curres to take suitable superts to draw a snowflake.

5. Design the user sufface in the mainwindow wi file.

6. End the prognam.

FLOWICHART: Start Proclude methods: mainwindow.h Desene methods for drawing fractals and aveves: marnuindow. CPP Apply concenpt of fractals to draw a showflake Despon UI for Input : mainwindow.ul parameters required for deauising a snowflake (dimensions) Shouglake of eagurned

	Rajdhani DATE / /			
Sr.No.	TEST CASES:			
7.	Description Onder: 0	Expected output	Actual output	States
	Ondoe: 0			Pass
2.	onder:1			Pass
2				
3.	onder: 2.			Pass.
	CONCLUSION: The knowledge and sniplementation of koch curuss using the concept of fractals was successfully Implemented.			





125 void fractal::on_pushButton_2_clicked()

B koch-fract.pro



