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A CGM Project Synopsis on

Pokémon Capture Animation

Under the guidance of

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By

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# **Introduction Idea**

The aim of the project is to achieve a nearest possible animation of a cartoon series called Pokémon. In this we are trying to achieve a simple Poke ball (bouncing ball), based on the principles of the show that tries to capture a Pokémon.

The animation starts with the Poke ball being thrown at the Pokémon and after reaching the Pokémon the poke ball will open and capture it, followed by a big flash.

The Pokémon will try to capture the Pokémon by bouncing rapidly and when the Pokémon will get captured, it will start slowing down and stop, ending the animation.

# **Objective**

The program would use the concepts of designing and translation of various objects along with the application of boundary fill and flood fill in C/C++.

# **Hardware & Software**

The Hardware used would be HP (Hewlett Packard) G3 pro-book and the software used will be TurboC++ with utilization of graphics.h, dos.h, stdio.h & stdlib.h libraries.

### > System requirement

- o At least 128 MB RAM
- Windows XP sp3 or Dos Box
- o TurboC++ ( IDE 3.0 16-bit)
- o 16-bit environment

# **Methodology**

The Poke ball will be designed by the simple concentric circles (Bresenham's circle Algorithm) and a simple translational motion to reach the Pokémon. The Pokémon will be a shaped (comprising of circle, squares and all kinds of shapes) character which will have slight animation. Once the Poke ball reaches the Pokémon the ball will split open and engulf the Pokémon. Once this happens the

# **Expected Outcome**

A nearest possible and realistic animation of the Pokémon being captured by the Poke ball. Thus, implementing the graphics libraries covering the basic and conceptual grounds of Computer Graphics and Multimedia (CGM).

# References

- YouTube tutorials on bouncing ball in TurboC++.
- Pokémon shows for inspiration.
- TurboC++ software.