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Introductio

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1.1 What is Snake Game?

- Snake is the common name for a video game concept where the player maneuvers a line(snake) which grows in length, with the line itself being a primary obstacle.
- Originated in 1978.
- Has simple controls.

■ 1.2 What's the twist?

- ➤ Snake teleports through purple '?' On taking fruits
- ➤ Makes the game more fun and interesting



APPROACH

2.1 How was the idea originated?

As both of us have an interest in gaming we wanted to implement something different in this, and using the concepts of OOPS such as inheritance, polymorphism and classes we could make our interest into this project. We chose a simple game and added our own idea in it of teleportation so the game is more interesting and original.

SOFTWARE TOOLS USED:

<u>C++</u>

General Purpose programming language

Created by Biarne Stroustrup

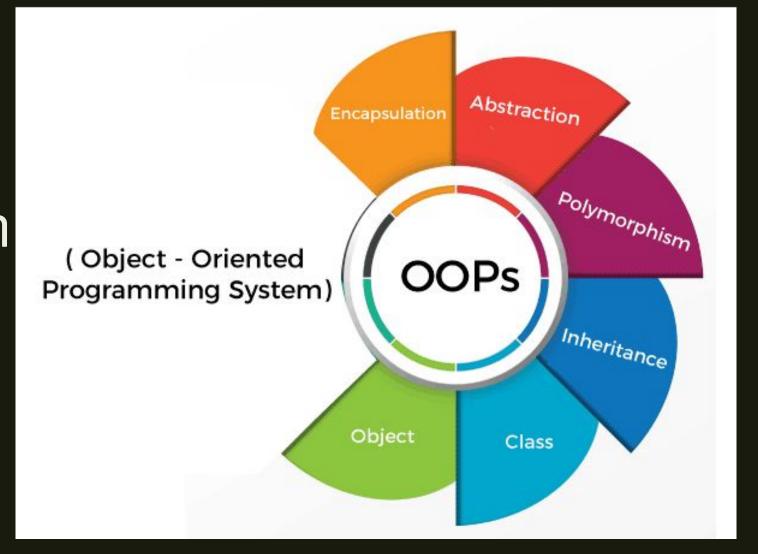
Extension of <u>C programming language</u>, or "C with <u>Classes</u>".

C++ now has <u>object-oriented</u>, <u>generic</u>, and <u>functional</u> features in addition to facilities for <u>low-level</u> <u>memory</u> manipulation

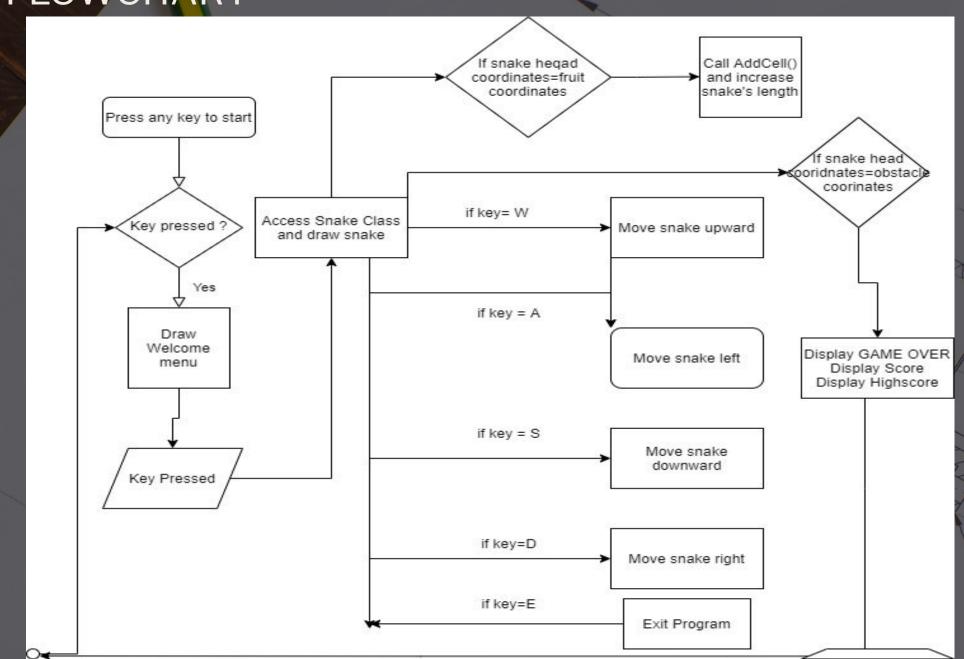
Object Oriented Programming: OOP is a programming paradigm built on the concept of objects that contain both data and code to modify the data. Object-oriented programming mimics a lot of the real-world attributes of objects.

Some of the most widely used object-oriented programming languages are Java, C++, and Ruby. Like Python and JavaScript, many languages that are not strictly object-oriented also provide features like classes and objects inspired by object-oriented programming. Simula and Smalltalk are the first languages widely regarded as being object-oriented.

Object
Oriented
Programmin
g



PROTOTYPE FLOWCHART



Libraries, class es and functions used:

Inbuilt header files and functions used:

<vector> SetconsoleCursorPoistion

()

<iostream> Rand()

<conio.h system("cls")</pre>

<time.h> getch()

<dos.h> Sleep()

<color.hpp> kbhit()

Classes made:

<u>Snake</u> Point

- Functions made
- gotoxy()
- SetPoint()
- GetX(),GetY()
- MoveUp(),MoveDown(),MoveLeft(),Move Right()
- Draw(),DrawFruit,DrawObstacle
- Erase()
- CopyPos()
- IsEqual()
- AddCell()
- Move()

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- SelfCollision()
- Collision()

CODE

PS C:\Users\tusha\Documents\Codes> .\a.exe WELCOME TO SNAKE GAME made with C++ using concepts of OOPS
MADE BY:Tushar Bhatia (2K20/SE/147) and Vipin Yadav (2K20/SE/158) WELCOME TO SNAKE GAME made with C++ using concepts of OOPS

CONTROLS:

W-Move up

S-Move Down

A-Move left

D-Move Right

RULES: Do not touch the RED obstacle. Do not bite yourself

OBJECTIVE: Take as many fruit(\$) as possible.

Press any key to start

0

Game Over

SCORE: 110

congrats you've achieved title of SILVER

Current HIGHSCORE: 110

Press any key to start again

