



object oriented programming & Blockchain

Ramkumar S

Object oriented
programming languages

Structured
programming languages

VS

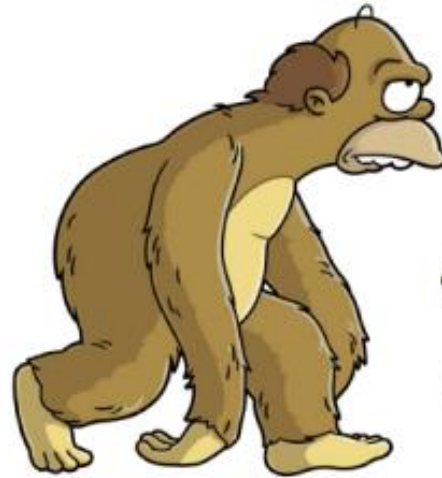




MACHINE



ASSEMBLY



PROCEDURAL

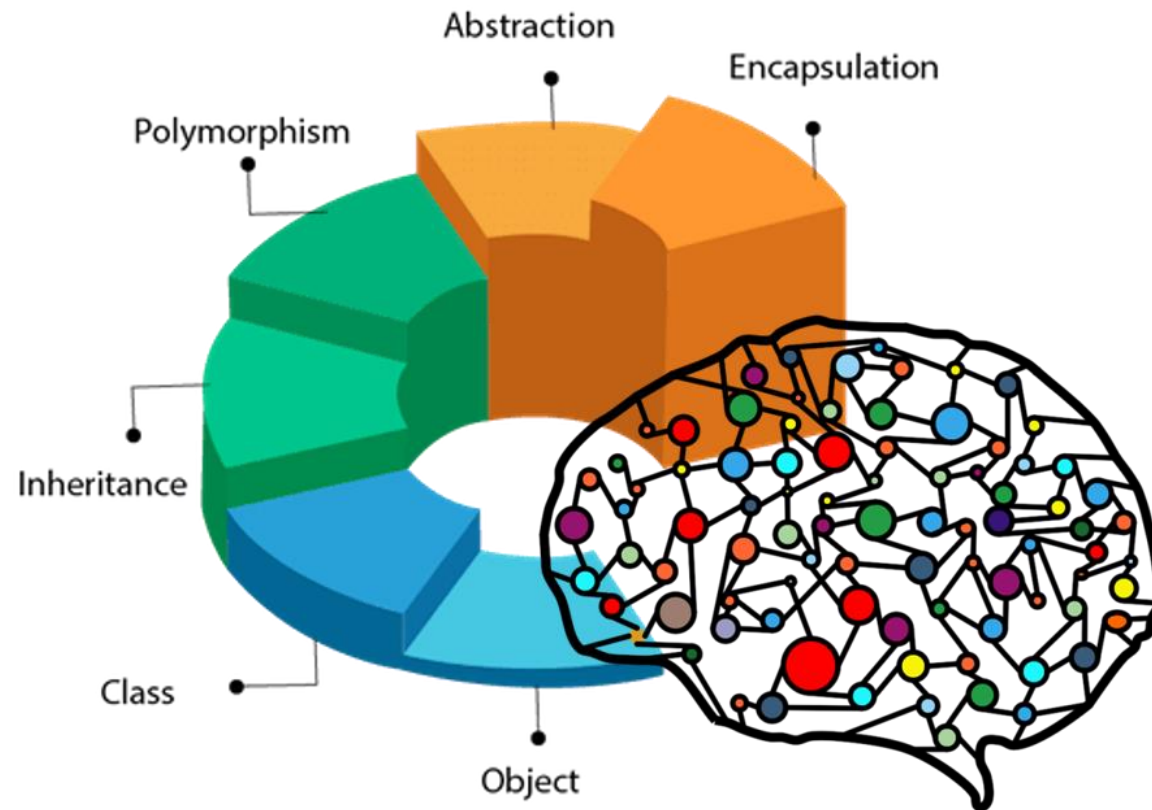


OBJECT ORIENTED



FUNCTIONAL

OOPs (Object-Oriented Programming System)

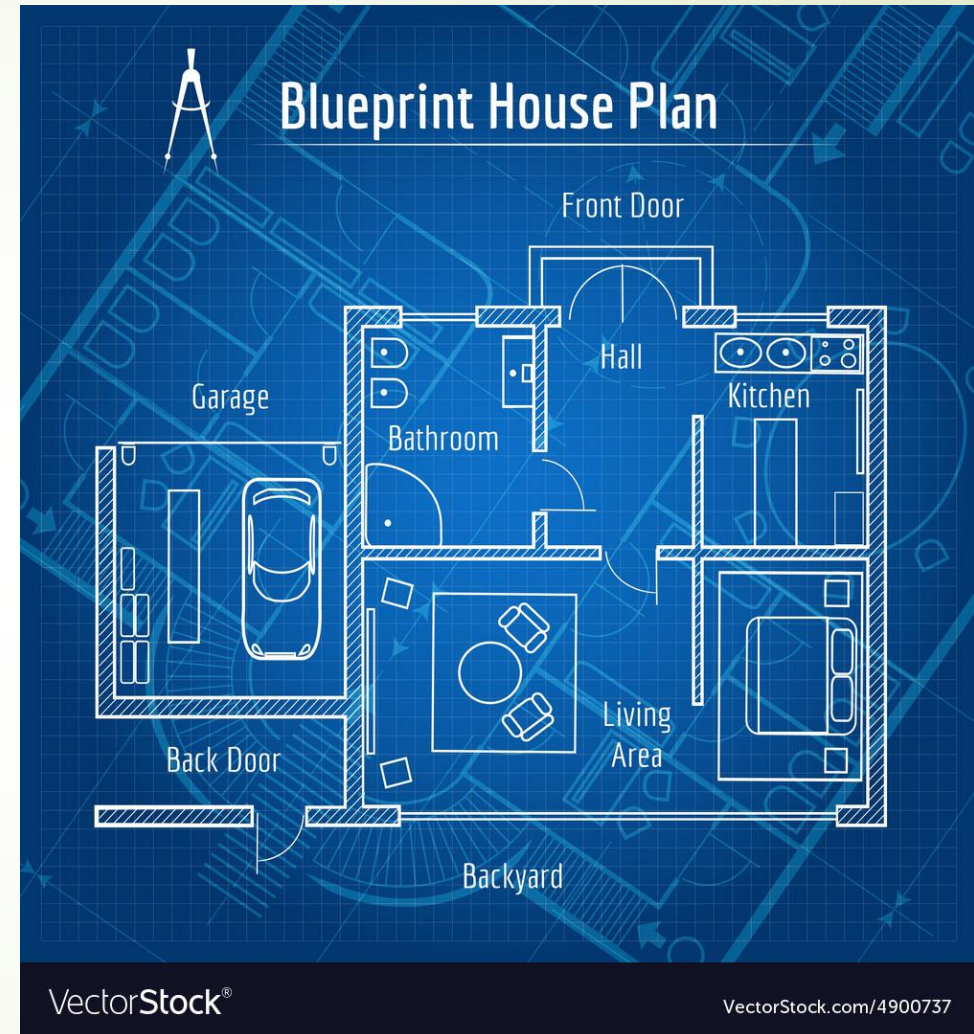


Object

Any entity that has state and behavior is known as an object.



Class
*Collection of
objects* is
called class.



class



Car

objects



Audi



Nissan

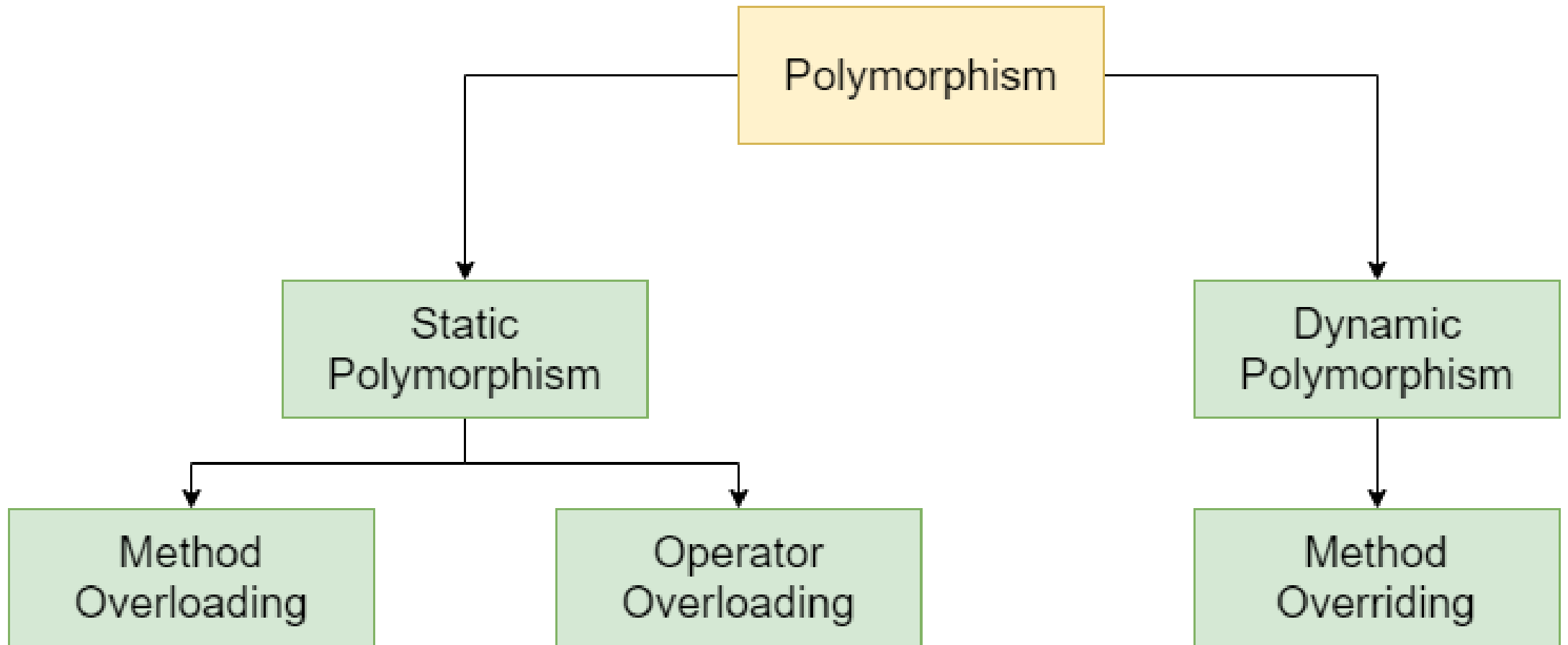


Volvo



Polymorphism

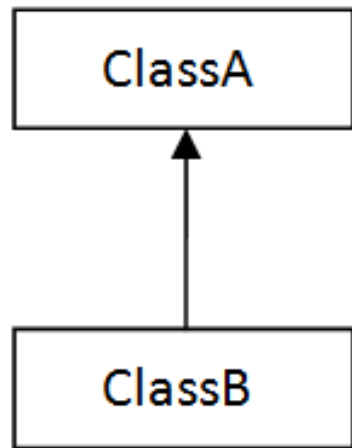
If one task is performed in different ways, it is known as polymorphism.



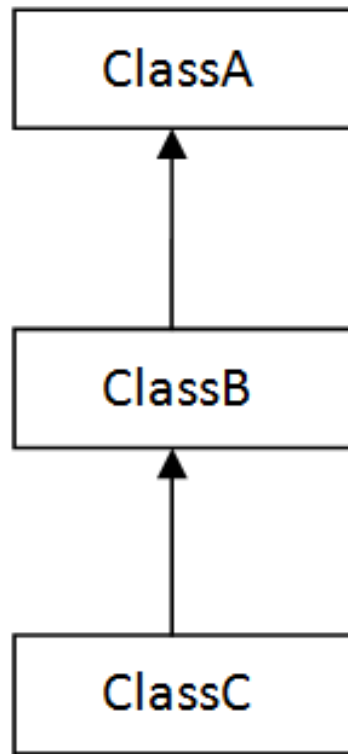
Inheritance

When one object acquires all the properties and behaviors of a parent object, it is known as inheritance.

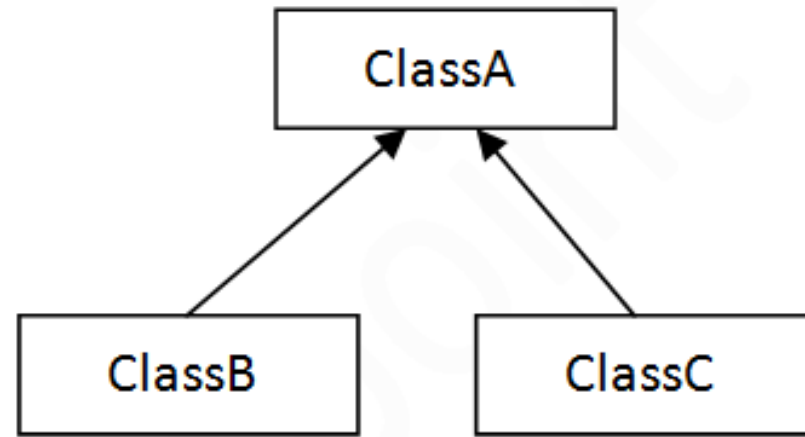
It provides code reusability



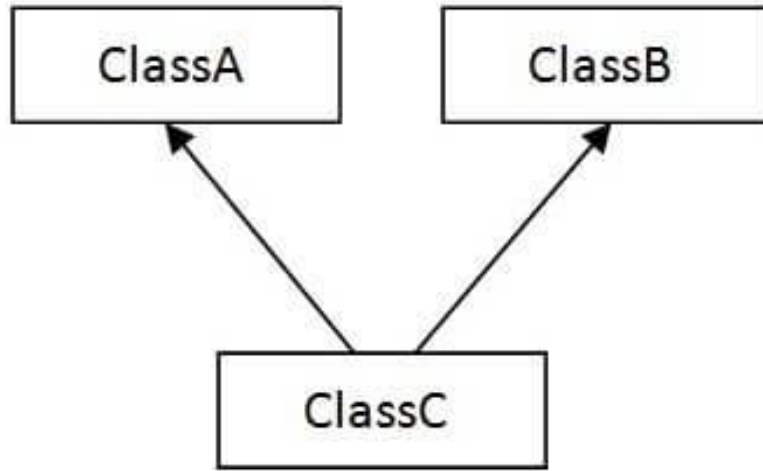
1) Single



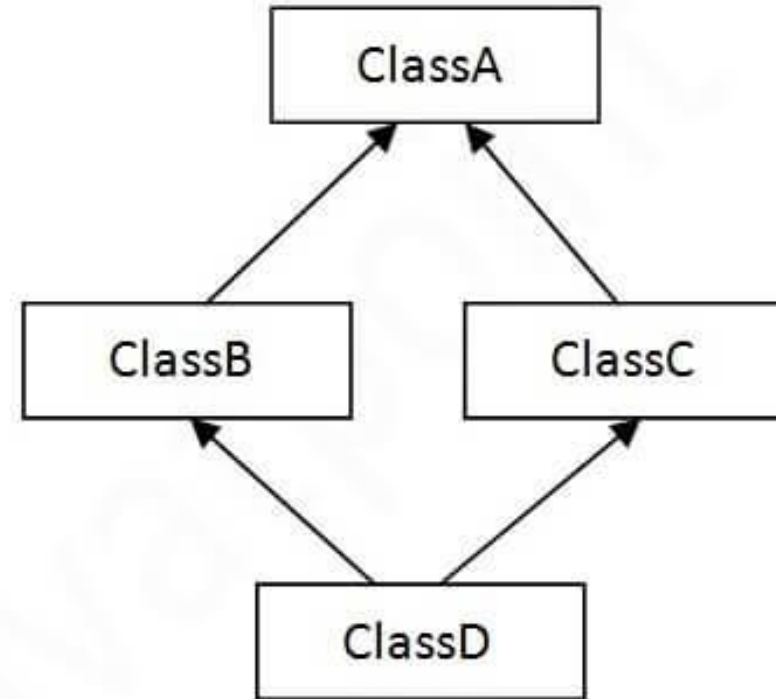
2) Multilevel



3) Hierarchical



4) Multiple



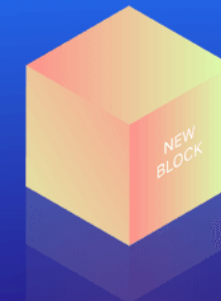
5) Hybrid



What is Blockchain?



New Transaction



Blockchain

A blockchain is a constantly growing ledger which keeps a permanent record of all the transactions



What is **Bitcoin**?

INTRODUCTION

- ➡ **Satoshi Nakamoto** introduced the bitcoin in the year 2008.
Bitcoin is a
cryptocurrency
(virtual currency)



Satoshi Nakamoto

Central Server Network



Peer-to-Peer Network



What is Hashing?



HASHING

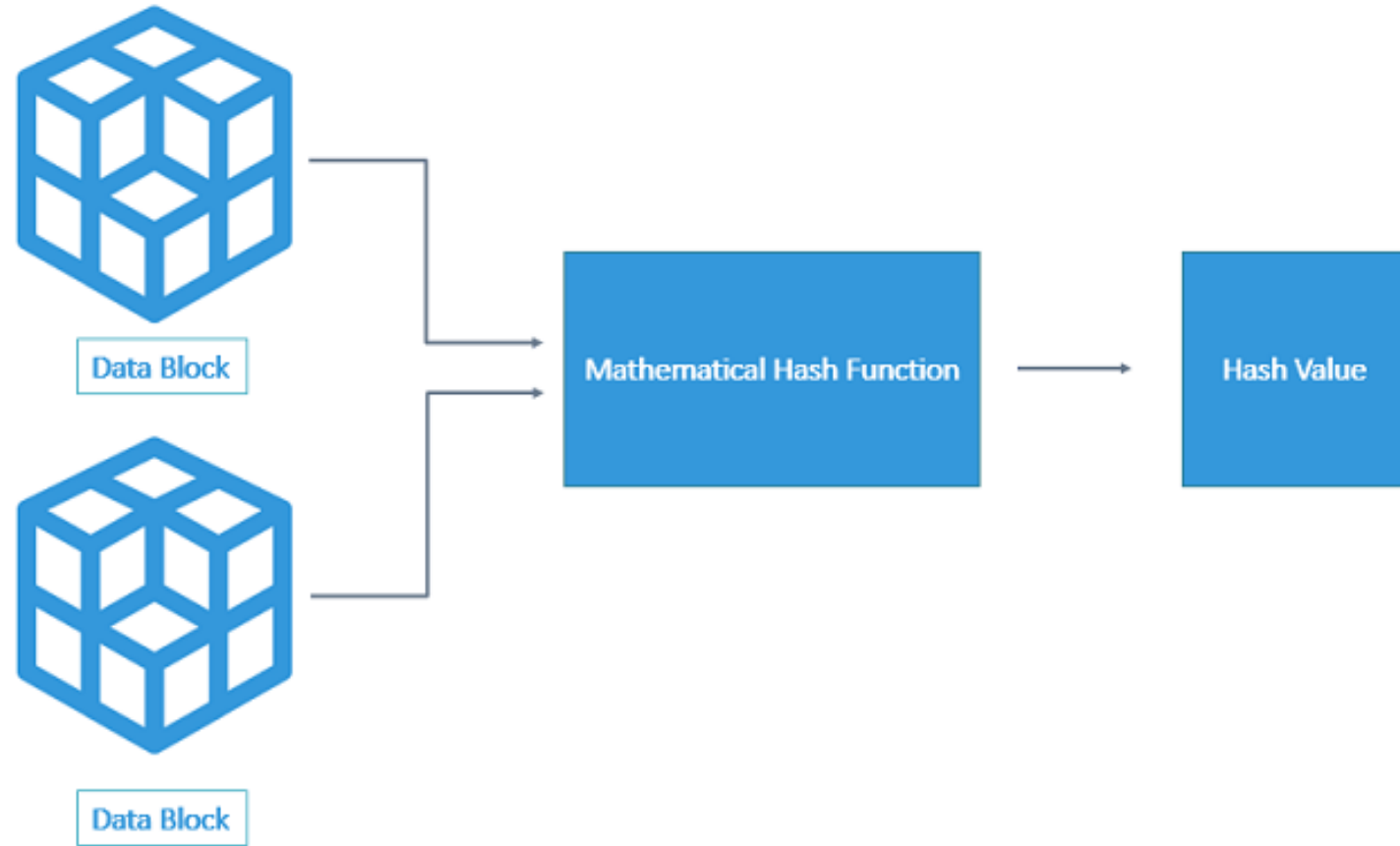
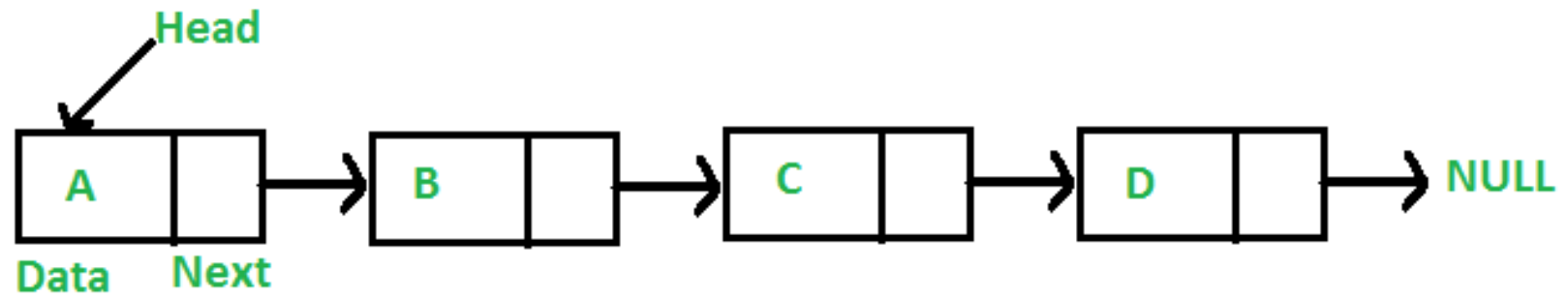


Image: Hash Function Structure



BLOCKCHAIN WORKS!!!

