**Programming Paradigms**

There’s two must popularly Programming Paradigms:

* Imperative
* Declarative

**1st and 2nd Generation of the Programming Languages.**

Machine Code:

* Assembly [is a low-level programming language])

**3rd Generation of the Programming languages.**

Procedural – used word to type code and it is imperative:

* Cobol [Used words like, file, move, copy]
* FORTRAN
* C

**4th Generation of the Programming languages.**

Object-Oriented:

* C++
* Python
* PHP
* Java
* C#

Declarative:

* Logical
* Functional
* Data Given

Functional Programming is the most popular programming paradigm and it:

* Uses function
* It traces its roots back to mathematical matters
* Not affected by external variables
* Executes a series of mathematical functions to get the desired result
* Doesn’t use loops. Uses Recursion.

Languages that supports Functional programming.

1. Purely Functional programming languages
2. Not Purely Functional programming languages

Purely:

* Haskell

Not Purely:

* JavaScript
* Python
* C++

Imperative vs Functional:

* Imperative only does his work
* Functional returns value