

Foundation of Coding

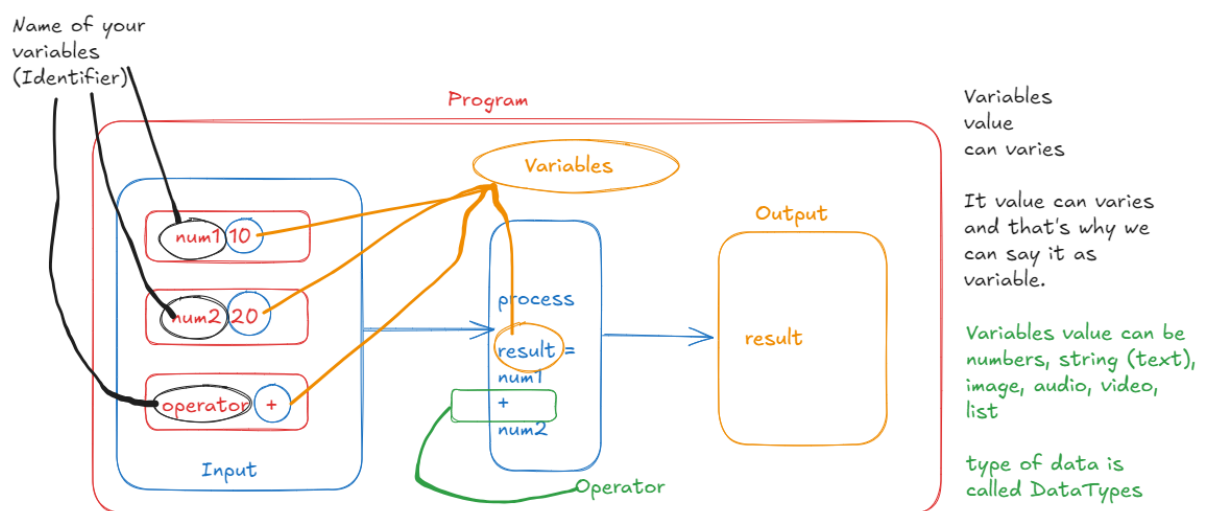
Understand the principles & understand the concepts which are important for you as a beginner.

With the help of concepts you can

1. build your problem solving skills
2. logic building
3. logical thinking

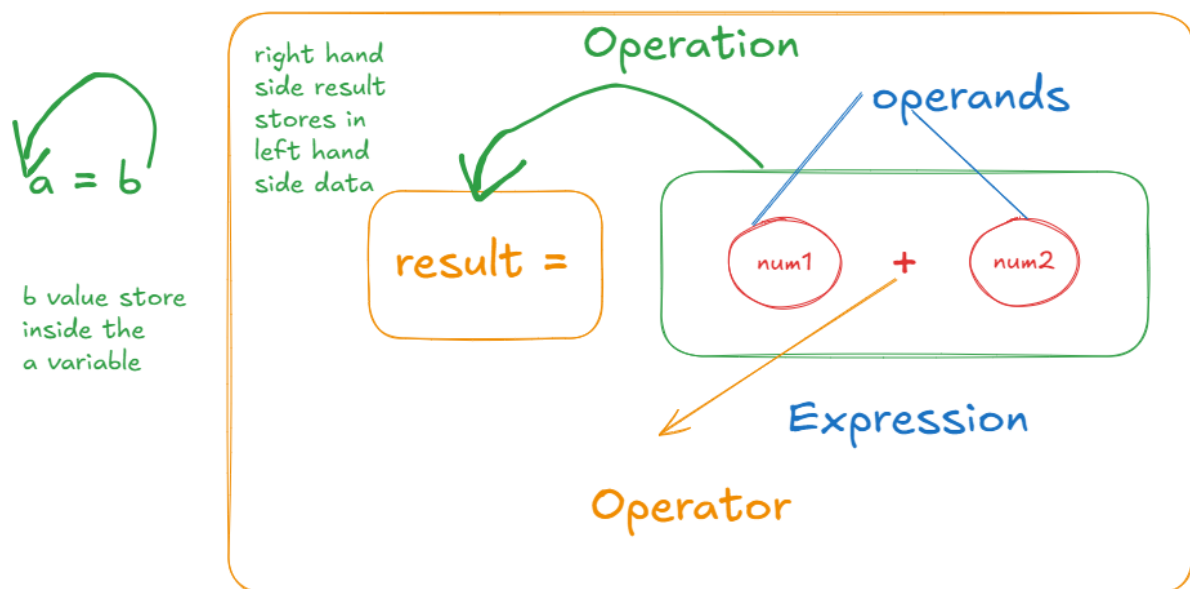
Basic Syntax and Structure

Variables: Its storage which is used to store data.

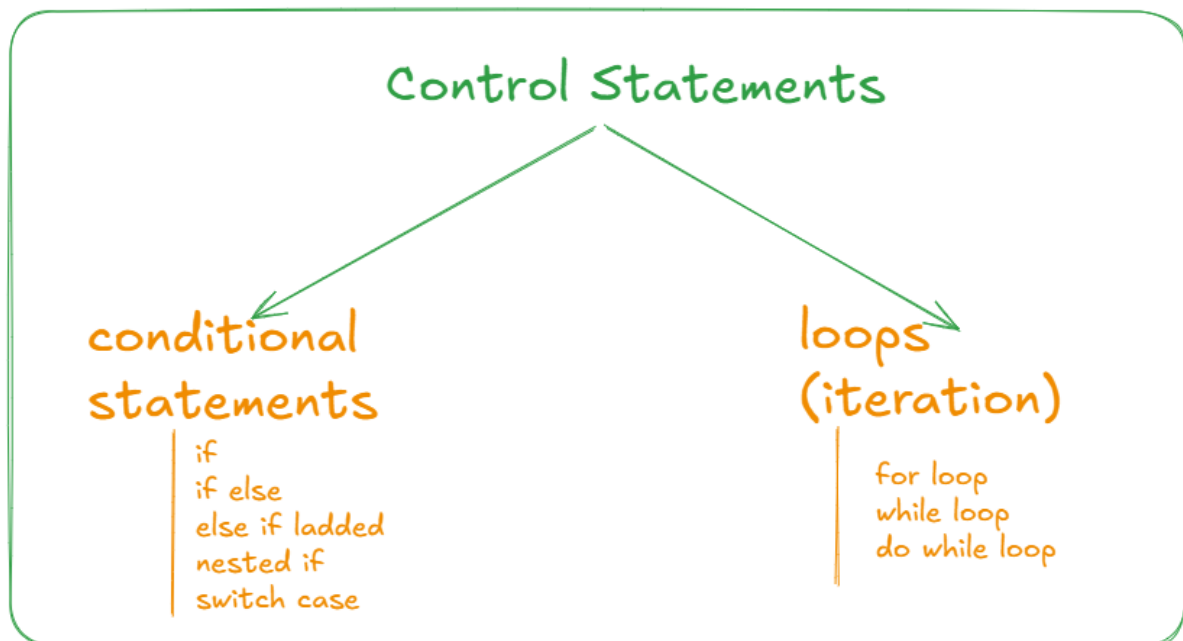


Operators: Which is helping you're the execute some expression.

Mathematical operator, logical operators, comparison operators

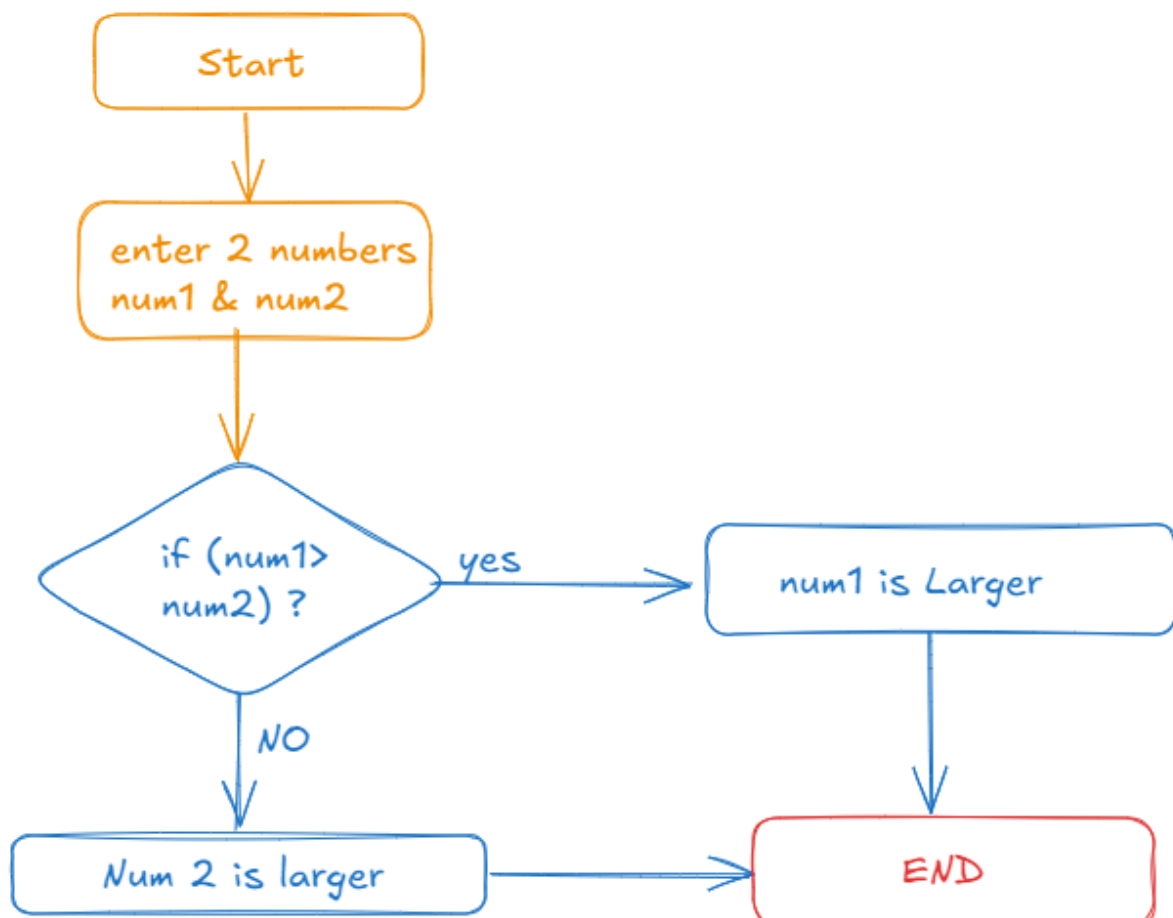


2. Control Statements

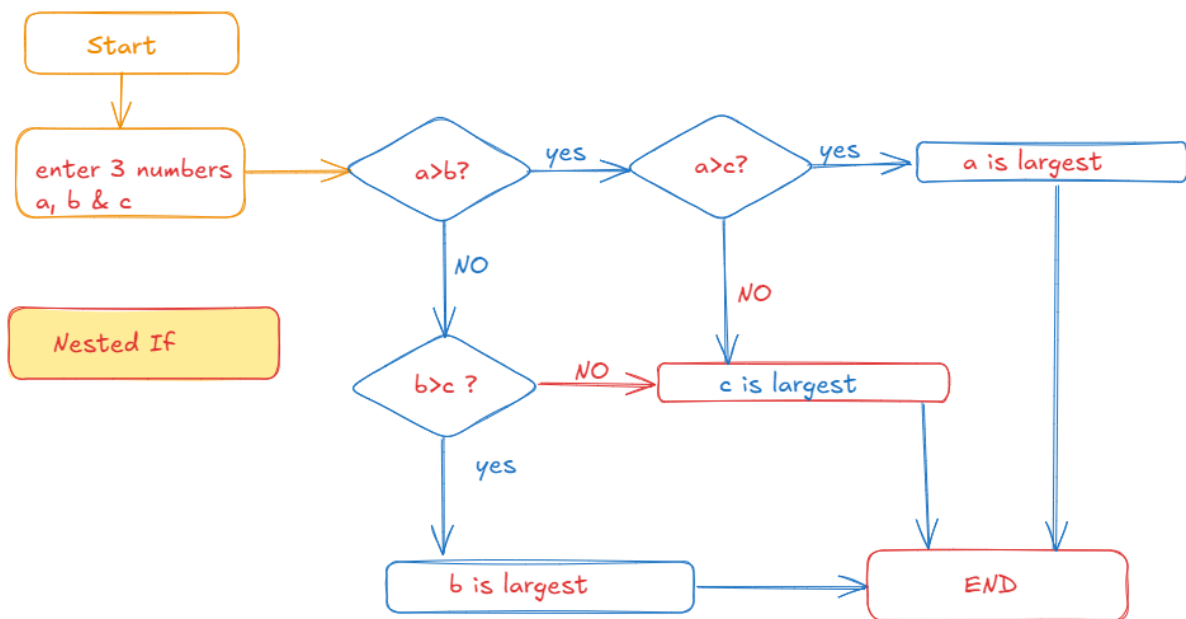


If Else

If will execute if the condition is true, else will execute if your condition is false.



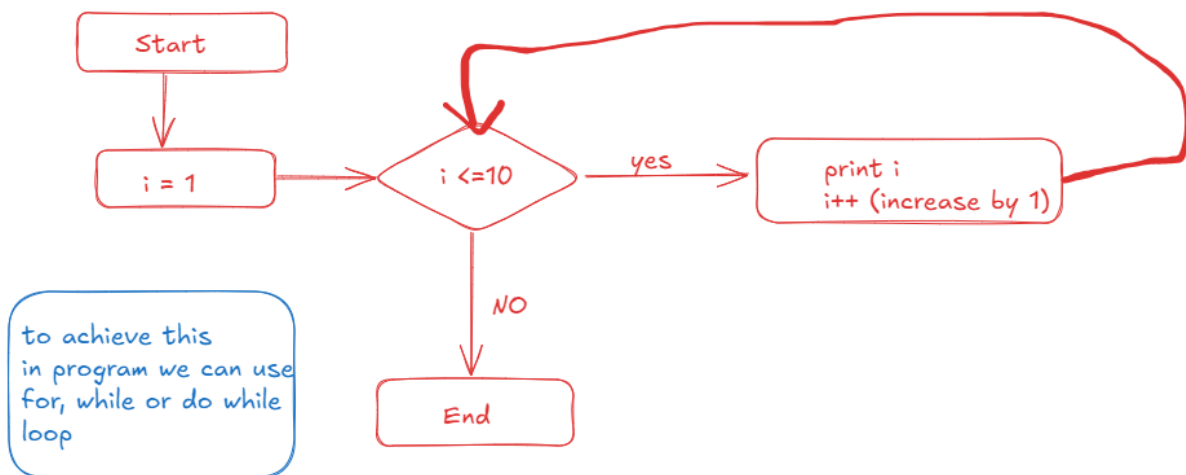
Nested If Example with flow Chart (to find out largest number among 3 numbers)



Loops:

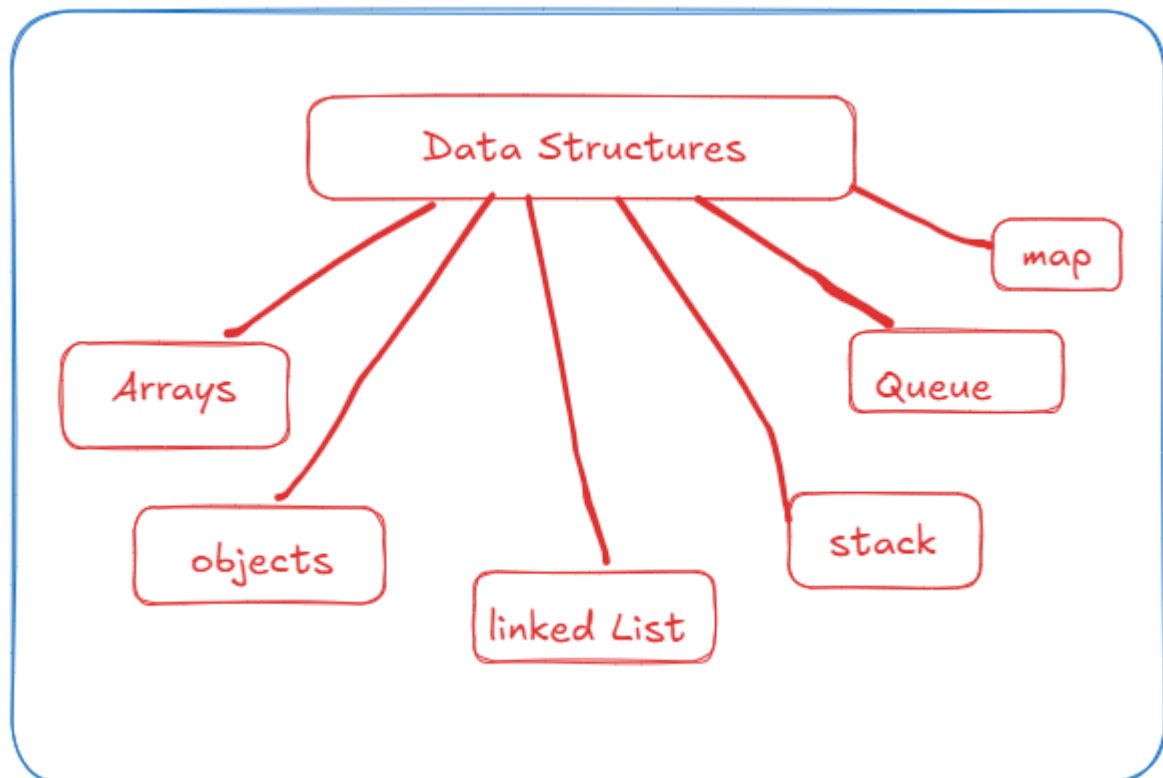
To do some repetitive Task we need loops.

Let's say you want to print first 10 natural numbers.



Data Structure

How you want to structure your data when you are working with huge amount of data.



Algorithms:

It helps you to write the basic logic of what you want to implement and based on that when you start writing your program it helps you to solve your problem efficiently.

Simple algorithms

- Sorting algorithms
- Searching algorithms
- Traversing algorithms

Exception handling

How to handle the problems which occurs at the time of program execution

Debugging:

Identifying the issues and bugs from your code and fix it.

This process is called Debugging