

Introduction to Traditional Programming Concepts

Traditional programming concepts form the foundation of imperative and object-oriented programming languages. These fundamental ideas are essential for understanding how programs work and for writing effective and efficient code.

Variables and Data Types

Variables

Variables are like containers that hold information. They are given descriptive names that make it easier to understand what they represent.

2 Data Types

Data types define the kind of data a variable can hold, such as numbers, characters, or strings.

Example

3

A variable declared as int weightLimit; in C can only store integer values.

t;return"input"===e.nodeName.toLowerCase()&&"text"===e
n[t-1]}),eq:ve(function(e,t,n){return[n<0?n+t:n]}),eve
e}),lt:ve(function(e,t,n){for(var r=n<0!n+t:t<n?t:n;0<
e})}}).pseudos.nth=b.pseudos.eq,{radio:!0,checkbox:!0,
xe(e){family ar t=0,n=e.length,r="%t<n;t++)rain[t].valu

DEPENDENT VARIABLE

Te(e,t,n,r,i){for(vam o,a=[],s=0,u=e.length,lanull!=t;
v&&!v[S]&&(v=Ce(v)),y&&!y[S]&&(y=Ce(y,e)),le(function(
n)(h||""",n.nodeType?[n]:n,[]),f=!d||ann p?c:Te(c,s,d,
(e){if(y||d){if(y){i=[],o=p.length;while(o--)(a=p[o])&
p=Te(p===t?p.splice(l,p.length):p),y?y(null,t,p,r):H.a

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Control Structures

Control Flow

1

Control structures change the order in which code is executed.

2

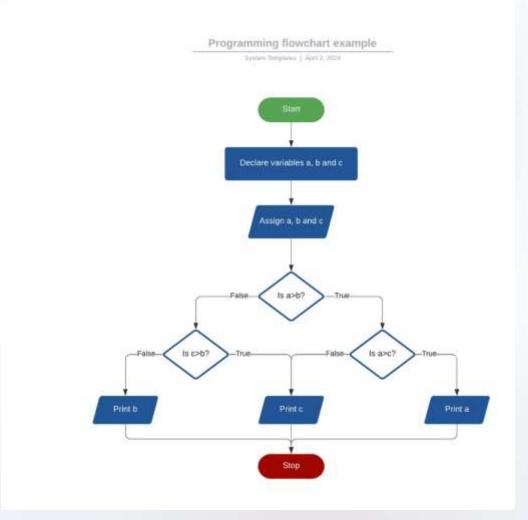
If-Else Statement

An if-else statement checks a condition and performs an action based on the result.

Looping

3

Loops repeat a block of code until a certain condition is met.



Declarative and Imperative Statements

Declarative Statements

Define data, such as variables and constants.

Imperative Statements

Direct the actions to be performed, like algorithms and procedures.

Comments in Code

Importance

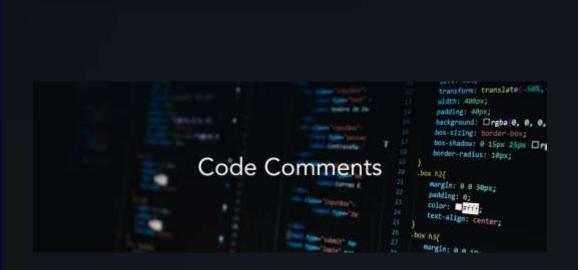
Comments improve code readability and maintainability.

Multi-Line Comments

Enclosed within /* and */.

Single-Line Comments

Start with //.

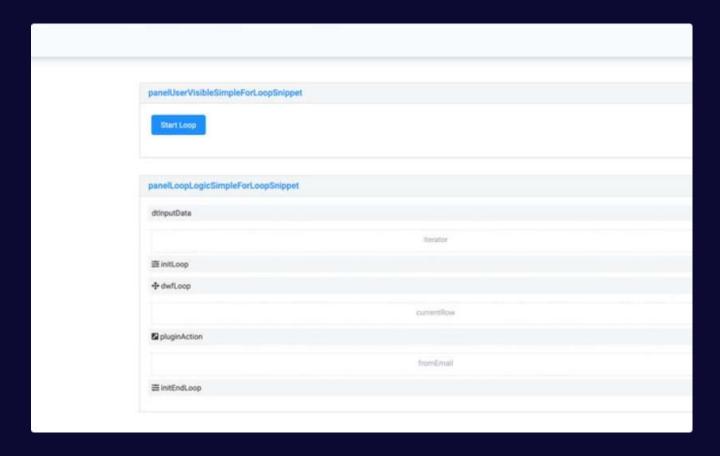


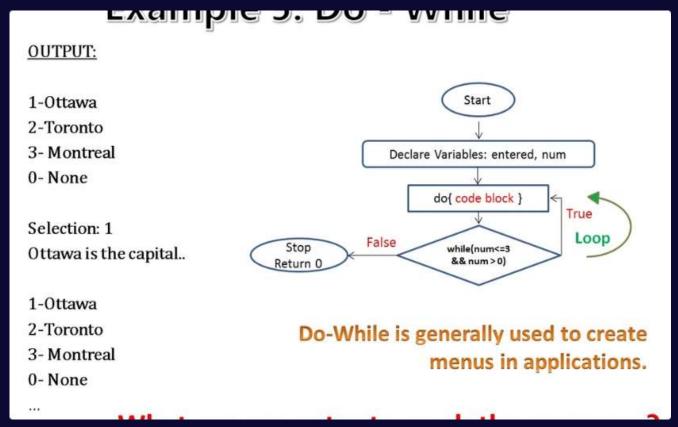


Assignment and Constants

Assignment	Storing a value in a variable.
Constants	Values that cannot be changed, offering clarity and ease of modification.

Control Flow Examples



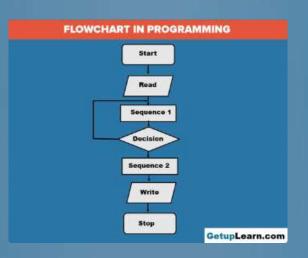


For Loop

Repeats a block of code a specified number of times.

Switch-Case Statement

Executes different code blocks based on a condition.



Conclusion

