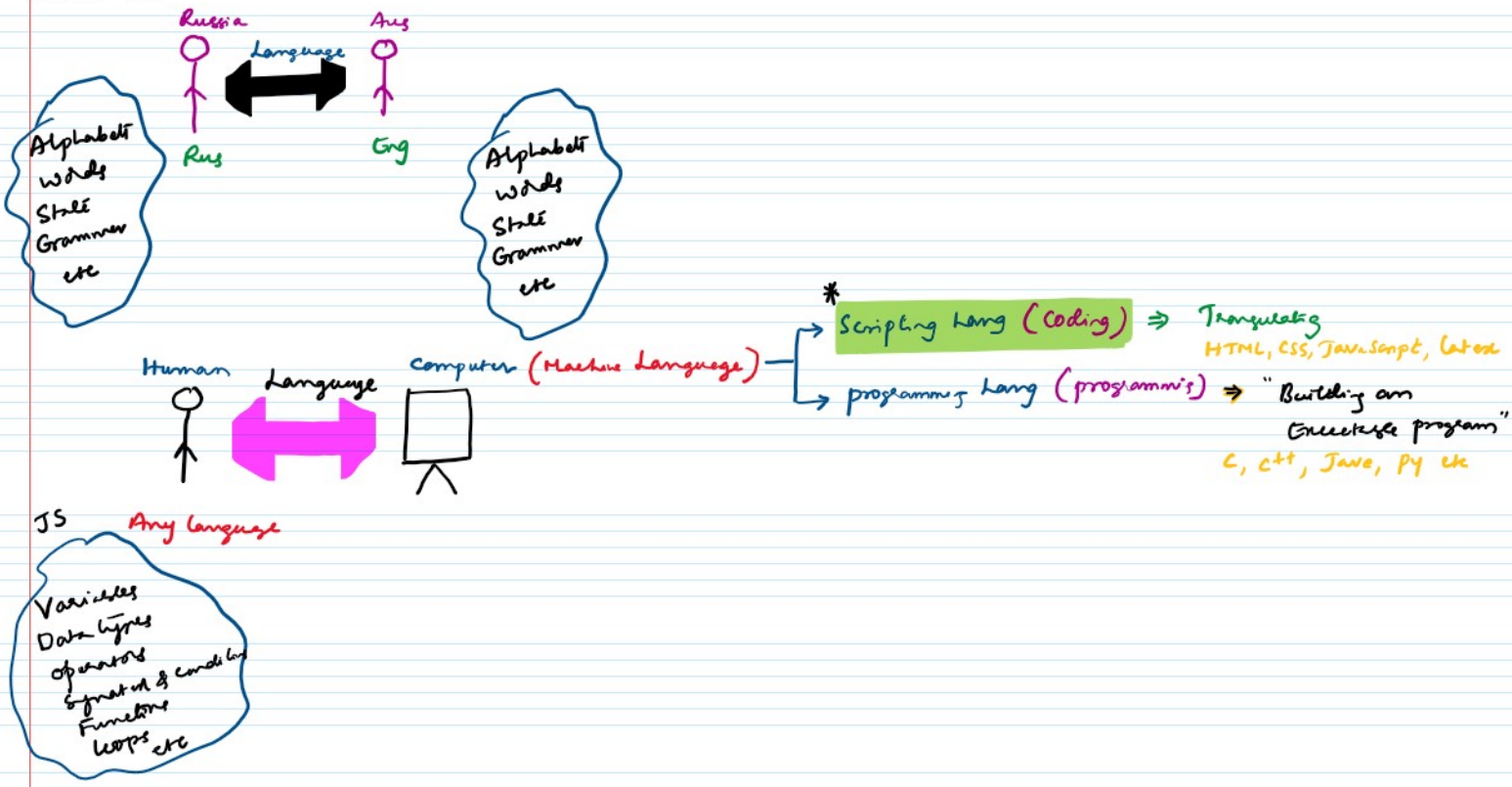
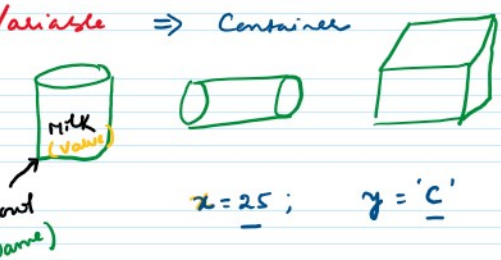
Code Foundations

15 March 2023 03:54



JS Any Language

* Variable ⇒ Container



`x = 25 ;` `y = 'C'` `z = "chaitanya"`

Data types :-

integer `x = 25 ;` char `y = 'C'` String `z = "Chai"`

`x = 'c' ;`

let ~~var~~ `x = 25 ;` `y = 'c'`

operators :-

`p = 25 + 15 = 40`

`25 + 'c'`

`p = 'c' + 'd'`

`= cd`

Arith	Logical	Comparisons	Shifting
+, −, *, /	AND, OR, NOT	( ) == ( ) ( ) ≤ ( ) ( ) ≥ ( )	x >> 1 ;
+15	{0, 1}, {F, T}, {NO, YES}	x = y ; x = 15 ; y = 25	
		x == y ; x = 25	
		15 == 25 X ⇒ False	

+15

{0, 1}, {F, T}, {NO, YES}

$x = y$; $x = 15$; $y = 25$

$x == y$; $x = 25$

$15 == 25$ X ⇒ False

T and F = F T or T = T

F and T = F T or F = T

T and T = T F or T = T

F and F = F F or F = F

$x >> 1$

$x = \boxed{0}\boxed{1}\boxed{0}\boxed{1}\boxed{1}\boxed{0}$

$x >> 1$

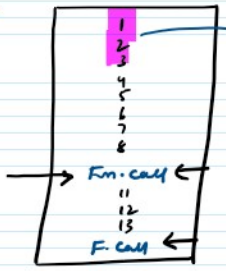
$\boxed{0}\boxed{0}\boxed{1}\boxed{0}\boxed{1}\boxed{1}$

$25/2$ >>

$x << 1$

Functions :-

Reuse)



→ Function

$x = 25$
$y = 15$
$x + y$

function add
{
c+d
}

~~p = 20 ; q = 30~~
~~p+q~~

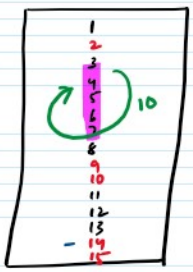
f. Add

~~a = 500 ; b = 200~~
~~a+b~~

f. add

2's :- while, For, Foreach

'epeat'



$i = 0$
$\boxed{i = 0+1 = 1}$
$i = 1+1 = 2$
$i = 2+1 = 3$
$i = 3+1 = 4$
$\boxed{i = 4+1 = 5}$ X

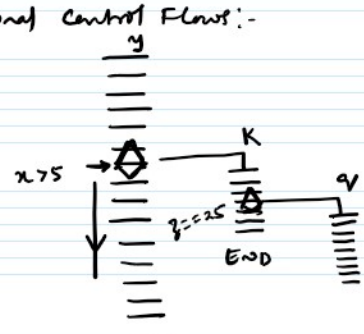
$\boxed{i = 0}$; $\cancel{1}$ 2 0<5 1<5

while (i < 5)
{
print ("chait")
}
i = i+1 ; i++
0+1
1+1 = 2
chait
chait
cha

for (i = 0 ; i < 5 ; i++)
{
print ("chait")
}

Foreach;
Case (x)
0 :
1 :

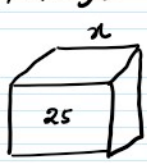
Conditional Control Flows :-



List :- $x = 25$;

chaitanya = [A, N, C, L];]

↑
Array



$x_1 = 25$; ← Single

$x_2 = [25, 'c', "SFD"]$; ← Multiple Values

$x = 10$ $y = 15$

$z = x + y \Rightarrow 25$

$z = 25$

$x = T$ $y = T$

$z = x$ and $y = T$

$z = T$