

Pointers continued :  $\Rightarrow$  data

The diagram illustrates the flow of data from a **data type** to a **memory loc** (memory location), which then leads to an **address** (with a note '(0x100x0)'). This address is shown as pointing to both a **CPU** and a **Compiler**. Above the memory location, there are two arrows pointing down to **var** and **val**, indicating they are both types of memory locations.

2. Pointers → It is a variable to store address of another variable

$$\text{int } P_{\text{ext}} = \frac{Q}{A} \quad \boxed{Q \times 1000}$$

$$\begin{aligned}
 & v_1 = \boxed{\text{& } x} = 1000 \Rightarrow *p + \delta \\
 & p_{\text{ptr}} = \boxed{\text{& } p_{\text{ptr}}} = 2000 \\
 & d_p + \delta = \boxed{\text{& } p_{\text{ptr}}} = 2000 \approx \frac{*d_p + \delta}{\text{address}} \\
 & \qquad \qquad \qquad = **d_p + \delta \\
 & \qquad \qquad \qquad = 10
 \end{aligned}$$

$\alpha = 30$  is larger than  $\alpha = 20$  ;

Assays : → Collection of Homogeneous Data

data type      name of array      Particular Data type      \* Numbers  
 ↑                  ↑                      Any one      \* Decimals  
~~int~~      arr[ ] = { 1, 2, 3, 4, 5, 6 } → position  
 ↓                  ↓                      Particular      \* Characters  
 data      variable      elements      \* Strings  
 fixed      (len - 1) = 5      { ind = pos - 1      → index  
 ↓                  ↓                      pos = ind + 1 }  
 last index      (0-based index)

\* Max & Min in an array :  
 \* Average (3)

1, 2, 3, 4, 5  
15 → sum

— LS —

$\approx 3$  (51)

no of ...