

→ Examples of pointers:

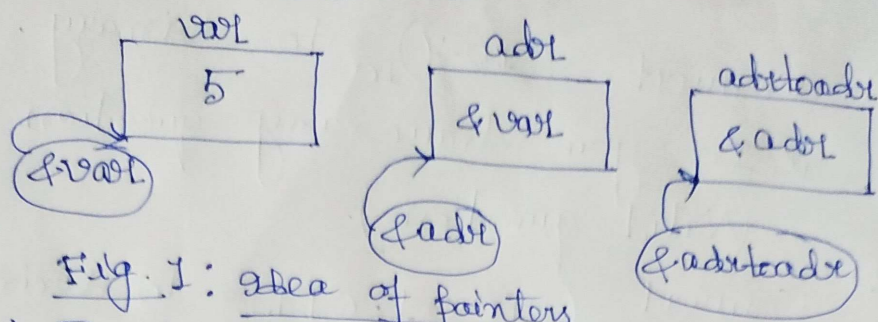


Fig. 1: idea of pointers

→ Pointers and arrays:-

Let us consider the following array —

`int a[5];` // An array that can hold maximum 5 integers

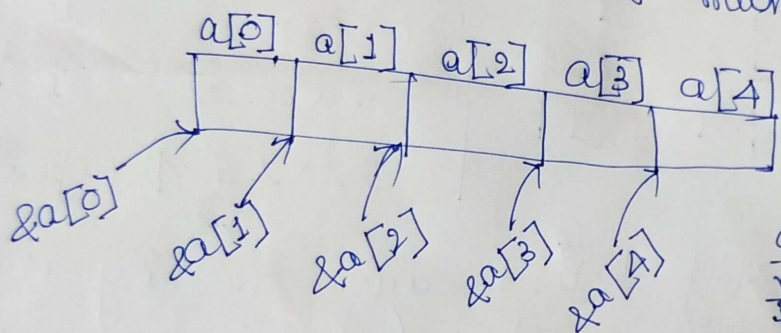


Fig. 2:
contiguous
memory allocation
in case of array.

$\&a[0]$ is called the base address of the array. Instead of $\&a[0]$ we can use just a to indicate the base address of the array. Let us assume that size of integer in some compiler is 4. Then if $\&a[0]$ (or just a) is 1012 (for example) the value of $\&a[1]$ will be $(1012+4)=1016$. Similarly, $\&a[2]$ will be 1020, and so on.

* on case of Fig. 1 $\&var$, $\&adr$ and $\&adrtadr$ do not follow such contiguous memory allocation.