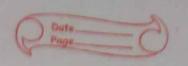
C-49 > Doray in C - Part 4.

Array Pougram 1



Aviays Notes

one data iten of same type.

contiguous memory location.

* Number of data items warray holds is size of array.

It once size has declared, it can't be charged at run time (fixed size).

Ander starts from O.

* Known as derived data typic

* Accessing of any element is faster using Ironan of averay.

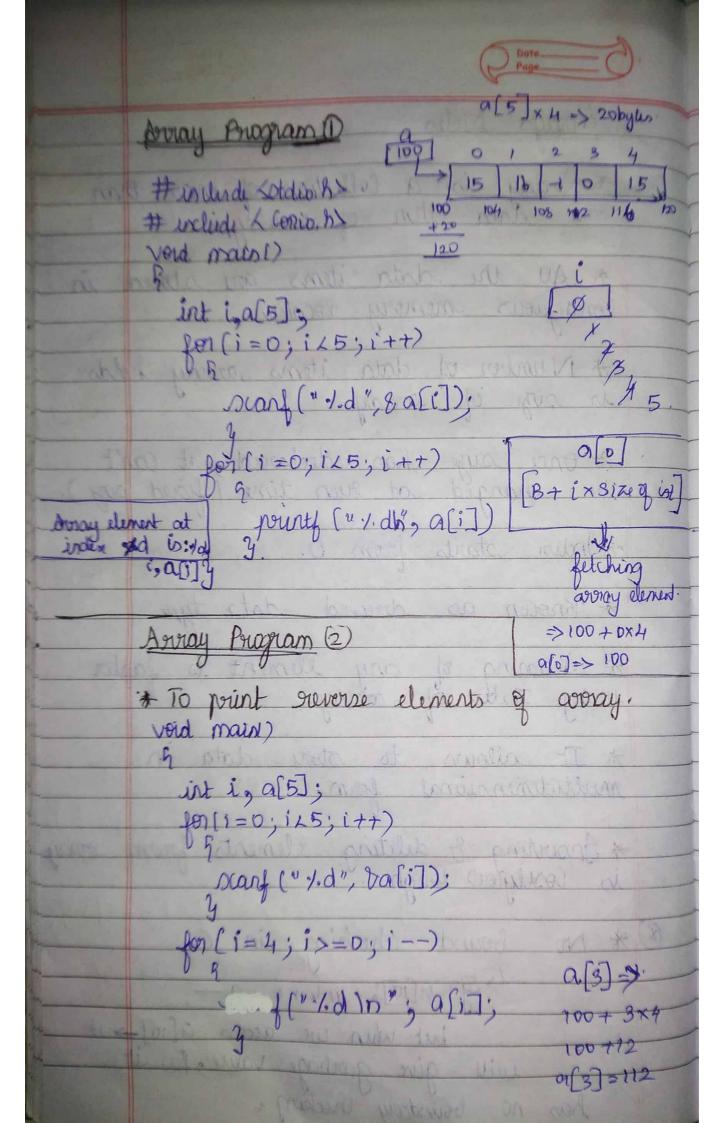
* It allows to store data in multidimensional form:

is costly(or) tough.

* No bound checking in C 45 Eg: a[10]3, Irdin 0 - 9

but when we access a [10] > it will give garbage value, le it

has no boundary hicking ,



CODE 1:

```
#include <stdio.h>
1
     #include <stdlib.h>
 3
     /** 1 - ARRAY PROGRAM **/
     /** PRINT ARRAY ELEMENTS IN BOTH FORWARD AND REVERSE ORDER **/
 5
     int main()
 6
    \square {
 7
         int i, a[5];
         printf("Enter the array elements:\n");
 8
 9
         for(i=0;i<5;i++)
10
          scanf("%d", &a[i]);
          printf("/** Forward order **/\n");
11
         for(i=0;i<5;i++) /** Forward order **/</pre>
12
13
         printf("The array element at index %d is:%d\n",i,a[i]);
         printf("/** Reverse order **/\n");
14
         for(i=4;i>=0;i--) /** Reverse order **/
15
16
         printf("The array element at index %d is:%d\n",i,a[i]);
17
         getch();
18
```

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```
Enter the array elements:

1
2
3
4
5
/** Forward order **/
The array element at index 0 is:1
The array element at index 1 is:2
The array element at index 2 is:3
The array element at index 3 is:4
The array element at index 4 is:5
/** Reverse order **/
The array element at index 4 is:5
The array element at index 2 is:3
The array element at index 1 is:5
The array element at index 2 is:3
The array element at index 2 is:3
The array element at index 0 is:1
```