







CODE 1:

```
#include <stdio.h>
     #include <stdlib.h>
 3  /** 1 - POINTER ARTHMETIC ADDITION **/
    int main()
 6
         //Pointer Addition will be used of Arrays concept
 7
         int a[5] = \{1, 2, 3, 4, 5\};
 8
 9
         //To print a[1]
10
         printf("Value in a[1]:%d\n",a[1]);
11
12
         //We can also use pointer variable to print a[1]
13
         int *p=&a[1];
14
         printf("Value in a[1]:%d\n", *p);
15
         //If we want to print a[2] using same pointer variable p
16
17
         p=p+1;
18
         printf("P address in incremented and corresponding address value is:%d\n",*p);
19
         printf("Address of a[2] is stored in p, Value of a[2]:%d\n",a[2]);
20
         getch();
21
22
```

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```
Value in a[1]:2
Value in a[1]:2
P address in incremented and corresponding address value is:3
Address of a[2] is stored in p, Value of a[2]:3
```

CODE 2:

```
1 #include <stdio.h>
     #include <stdlib.h>
   /** 2 - POINTER ARTHMETIC ADDITION **/
     //we have to change the value of 3rd elements with using pointer
     //Without using array index; Instead of 3, value should be changed to 10
     int main()
8
         int a[5] = \{1, 2, 3, 4, 5\};
9
         int *p=&a[0];
10
         p=p+2;
11
         *p=10;
12
         printf("Value in 3rd element of a[2]:%d %d",*p,a[2]);
13
14
         getch();
15
16
17
```

```
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Value in 3rd element of a[2]:10 10_
```