



Pointer Arithmetic

➤ Addition and subtraction are the only operations that can be performed on pointers.

➤ Take a look at the following example :

```
int var, *ptr_var;  
ptr_var = &var;  
var = 500;  
ptr_var++ ;
```

➤ Let var be an integer type variable having the value 500 and stored at the address 1000.

➤ Then ptr_var has the value 1000 stored in it. Since integers are 2 bytes long, after the expression “ptr_var++;” ptr_var will have the value as 1002 and not 1001.



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Increment & Decrement Operations Using Pointer



```
#include<stdio.h>
void main()
{
int i=100,*iptr;
float f=122.354,*fptr;
char c='d',*cptr;
iptr=&i;
fptr=&f;
cptr=&c;
printf("The values of the variables");
printf("\n%d",*iptr);
```

```
printf("\n%f",*fptr);  
printf("\n%c",*cptr);  
printf("\nStarting Address");  
printf("\n%u",iptr);  
printf("\n%u",fptr);  
printf("\n%u",cptr);  
iptr++;  
fptr++;  
cptr++;  
printf("\nPointer Incrementing");  
printf("\n%u",iptr);  
printf("\n%u",fptr);  
printf("\n%u",cptr);  
iptr--;  
fptr--;
```





```
/*Add Two Numbers using pointers*/  
#include<stdio.h>  
void main()  
{  
int a,b,*c=&a,*d=&b;  
printf("Enter two numbers to be summed");  
scanf("%d %d",&a,&b);  
printf("The sum of two numbers=%d",c + d);  
getch();  
}
```



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