- Increment And Decrement Operators in C:-

→ Increment operator in C:-

Syntax:-

```
// AS  PREFIX
++m
// AS  POSTFIX
m++
```

where m is variable.

1. Pre-increment:-

→ Also known as prefix increment, the value is incremented first according to the precedence and then less priority options are done.

```
result = ++var1
```

The above expression can be expanded as:-

```
var = var+1;
result = var;
```

2. Post-increment:-

→ The increment operations is performed after all the other operations are done. It is also known as postfix increment.

```
result = var1++;
```

The above expression is equivalent;-

```
result = var;
var = var+1;
```

```
/*C program to illustrate the increment of both
    types*/
#include<stdio.h>
void increment()
{
    int a=5;
    int b=5;

    //PREFIX
    int prefix = ++a;
    printf("Prefix Increment : %d \n", prefix);

    //POSTFIX
    int postfix = b++;
    printf("Postfix Increment : %d", postfix);
}

//Driver code
int main()
{
    increment();

    return 0;
}
```

Output!-

Prefix Increment:6

Postfix Increment!5

* The post-~~incre~~ increment have higher precedence that pre-increment as it is postfix operator while pre-increment comes in unary operator category.

→ Decrement operator in C:-

Syntax:-

```
//AS PREFIX
--m

//AS POSTFIX
m--
```

where m is variable

1Y. Pre-Decrement operator:-

The pre-decrement operator decreases the value of the variable immediately when encontered. It is also known as prefix decrement.

```
result =--m;
```

which can be expanded to

```
m=m-1;
result m;
```

2Y. Post decrement operator:-

In this case, the decrement operation is performed after all the other operators are evaluated.

```
result = m--;
```

The above expression can be expanded as;-

```
result=m;
m=m-1;
```

```
/*C program to illustrate the decrement operator
  of both types*/
#include<stdio.h>

void decrement()
{
  int a=5;
  int b=5;

  //PREFIX
  int   prefix = --a;
  printf("Prefix = %d \n", prefix);

   //POSTFIX
   int postfix = b--;
   printf("Postfix = %d", postfix);
}

//Driver code
int main()
{
  decrement();

  return 0;
}
```

Output:-

Prefix = 4

Posttix = 5

37. #include<stdio.h>
int main()
{
int a,b;
printf("Please enter any number:");
scanf("%d", &a);
printf("Please enter any number:");
scanf("%d", &b);
a = a+b;
a = a-b;
a = a-b;
printf("After swapping, the numbers are %d %d", a,b);
return 0;
}

* Swap two number without using 3rd variable.

- Nested conditional operator:-

→ Syntax:-

Condition ? cond 2 ? _ : _ : cond 3 ? _ : _ ;

TRUE FALSE

38. #include <stdio.h>
int main ()
{
int a,b,c,d;
printf("Enter three no.:");
scanf("%d%d%d", &a, &b, &c);
d = (a>b) ? a>c ? a : c : b>c ? b : c;
printf("max is %d", d);
return 0;

* Find greatest among three no.