C Language – Assignment Operators

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Assignment Operators

I = I + 2 →   I += 2
+= is called assignment operator

Exp1 = (Exp1) Op (Exp2)	Exp1 Op= (Exp2)
X = X + 1	X += 1
X = X − 1	X -= 1
X = X * (Y+1)	X *= Y + 1 this should be read as X = X * (Y+1)

Op can be any one of the following :

+   −   *   /   %   <<   >>   &   ^   ¦

Conditional Expressions – If condition

If (a > b)

       result = a;

Else

       result = b;

** Else part is optional

If (expression)

 {   Statement 1; }

Else

 {   Statement 2; }

** Else part is optional

result = (a > b) ? a : b ;

(**condition**) ? (exp1): exp2 ;

* **Condition** can be an expression resulting in 0 or non-zero

Else if

If (expression)
 {   Statement ; }
else if (expression)
  {   Statement ; }
else if (expression)
  {   Statement ; }
else if (expression)
  {   Statement ; }
else
  {   Statement ; }

If (month = 1)
  { month_name = "Jan" ; }
else if (month = 2)
   { month_name = "Feb" ; }
else if (month = 3)
   { month_name = "Mar" ; }
else if (month = 4)
   { month_name = "Apr" ; }
………….
………….
………….

If any expression is true, associated statement is executed and the chain is terminated

Switch statement

```
Switch ( expression )
{
    const expr : Statements ;
    const expr : Statements ;
    const expr : Statements ;
    default: statements ;

}
```

```
Switch ( month)
{
    1 :
            month_name = "Jan" ;
            break;
    2 :
        month_name = "Feb" ;
        break;
    3 :
        month_name = "Mar" ;
        break;
    4 :
        month_name = "Apr" ;
        break;
}
```

Exercises

1. Write a program using if else to display week day as following :

 When w=1 display Sunday

 When w =2 display Monday

 .

 .

 When w=7 display Saturday

2. Write the same program using switch

3. Use if (expr) ? (expr2) : (expr3) format and write a program to display the greater number of the two value given in the below sets

 a) a = 2, b = 5 b) a = -1, b = -10 c) a = 'A' b = 'B'

4. Write a program and display the value of result

 a) x = 5, result = ++x

 b) x = 5 result = x++