

26-04-2024

OPERATORS :- It is a symbol which performs some operation on operands.

1. Arithmetic

2. Modulus / Module Division

3. Increment & Decrement

4. Relational

5. Logical

6. Bitwise

7. Conditional

8. Assignment

9. Special operators

1. ARITHMETIC :- + - \* / these are binary operators.

We apply these operators on integers, floats & characters.

Ex :- main ()

```
{ int c;  
  c = 'B' + 'A';  
  printf ("%d", c);  
}
```

O/p :- 131

66  
65

2. MODULUS [%] :- It is a binary operator. It gives remainder

Ex :- main ()

```
{ int c;  
  c = 5 % 2;  
  printf ("%d", c);  
}
```

O/p :- 1

→ If  $a \% b$ , Numerator is the remainder

Ex :- main ()

```
{ int c;  
  c = 8 % 9;  
  printf ("%d", c);  
}
```

O/p :-



-> The sign of the remainder depends on only Numerator not

Ex: on denominator

Ex:-

```
main ()
{
    printf ("%d %d %d %d %d %d %d %d", 4%3, -4%3,
    4%-3, -4%-3, 3%4, -3%4, 3%-4, -3%-4);
}
```

O/P:- 1 -1 1 -1 3 -3 3 -3

-> We should not apply % operator on float

EX:- d = 5 % 2.5; -> It gives error

EX:-

```
main ()
{
    int days, months, weeks;
    printf ("Enter days: ");
    scanf ("%d", &days);
    months = days/30;
    days = days % 30;
    weeks = days / 7;
    days = days % 7;
    printf ("%d months %d weeks %d days",
    months, weeks, days);
}
```

}



Ex:- main ()

Enter min

O/P x hrs x min

```
{ int mins, hrs;
```

```
printf ("enter no of minutes: ");
```

```
scanf ("%d", &min);
```

```
hrs = min / 60;
```

```
printf ("%d", min);
```

```
min = hrs * 60;
```

```
min hrs = min % 60;
```

```
printf ("%d hours %d minutes", hrs, min);
```

```
}
```

2  
150  
60

9  
m = 2 5

m = 2

24

Q:- WAP to find sum of individual digits of 3 numbers:-

main ()

```
{ int m, m, s=0;
```

```
printf ("enter m");
```

```
scanf ("%d", &m);
```

```
m = m % 10;
```

```
s = s + m;
```

```
m = m / 10;
```

```
m = m % 10;
```

```
s = s + m;
```

```
m = m / 10;
```

```
m = m % 10;
```

```
s = s + m;
```

```
m = m / 10;
```

```
printf ("%d", s);
```

```
}
```

while (m != 0)

WAP to find sum of 'n' digits number of digits:-

[OR] int main ()

```
{ int m, sum=0, m;
```

```
printf ("Enter a number:");
```

```
scanf ("%d", &m);
```

```
while (m != 0)
```

```
{ m = m % 10;
```

```
sum = sum + m;
```

```
m = m / 10;
```

```
}
```

```
printf ("sum of individual digits %d", sum);
```

```
}
```



Q:- WAP to reverse a number:-

→ main ( )

```
{  
  int m, rev, s = 0;  
  printf ("enter m");  
  scanf ("%d", &m);
```

```
  rev = m % 10;
```

```
  s = s * 10 + rev;
```

```
  m = m / 10;
```

```
  rev = m % 10;
```

```
  s = s * 10 + rev;
```

```
  m = m / 10;
```

```
  rev = m % 10;
```

```
  s = s * 10 + rev;
```

```
  m = m / 10;
```

```
  printf ("%d", s);
```

```
}
```

→ main ( )

```
{  
  int m, reverse = 0, rem;  
  printf ("enter number  
  to be reversed:");  
  scanf ("%d", &m);
```

```
  while (m != 0)
```

```
{  
    rem = m % 10;  
    reverse = reverse * 10  
    + rem;
```

```
    m /= 10;
```

```
}
```

```
printf ("The reversed  
number is: %d",  
reverse);
```

```
}
```

[OR]