

Programming Beginner To Advanced

Ternary Operator- The ternary operator is also called conditional operator. It is called ternary as it deals with three variables. It provides a way to shorten a simple if else block.

Syntax: variable = (condition)? Value1 : Value2 ; [The meaning of the operator is, it will first check whether the given condition is **true or false**. If it is true, then the value will be assigned to 'value1', otherwise it will be equal to 'value2'.]

For Example:

if(p>q) **Same code using Ternary Operator:**
x=5; x=(p>q) ? 5 : 10;
else
x=10;

Rewrite the following using Ternary Operator:
if(income<=10000) tax=0; else tax=12;
Ans. tax=(income<=10000) ? 0:12;

1. Write a program to accept any integer and check wheather it is odd or even using Ternary Operator Or Without Use If else.
2. (age>=18) is the condition if the expression is true value "Allowed" is assigned to voting else "Not Allowed" will be assigned to voting. Using Ternary Operator make this program.
3. Write a program to find largest and smallest of two numbers without using if else.
4. Write a program to find smallest of three numbers without using if else.
5. Write a program to find largest of three numbers using Ternary operator.
6. Write a program leap year or not without using If else statement .

7. Rewrite the following statements using Ternary operator:

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|---|--|--|---------------------------------------|---------------------------------------|---|
| a) if(sale>=25000)
dis=5000;
else
dis=250; | b) if(p>4780)
k=p*5/100;
else
k=p*10/100; | c) if(a>b)
if(a>c)
g=a;
else
g=c;
if(b>c)
g=b;
else
g=c; | d) if(a>10)
x=15;
else
x=20; | e) if(5%2==0)
f=1;
else
f=0; | f) if(1007/7==0)
d=5;
else
d=15; |
|---|--|--|---------------------------------------|---------------------------------------|---|

8. Rewrite the following statemets Using If else:

a) x=(a>b) ? 10:15

b) commsion =(sale>5000) ? sale *10/100 : 0;

c) net=(salary >10000) ? salary – (8.33/100)salary : salary – (5/100)*salary;

d) s=(a+b<c || a+c<=b || b+c<=a) ? "Triangle is not possible" : "Triangle is possible";

e) c=(x>='A' && x<='Z') ? "Upper case Letter" : "Lower Case Letter" ;

NOTE: Why Should Use the Ternary Operator?- The ternary operator greatly increases the conciseness of your code. When it is formatted correctly it can also be very easy to read.

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