Todays Topic

- Ternary Operator

Ternary Operator

The ternary operator (?) is used to conditionally execute simple expressions.

```
condition ? expression1 : expression2
```

First condition is checked if it is true then expression1 is evaluated else expression2 is evaluated.

```
import java.util.Scanner;
class demo
{
public static void main(String args[])
        {
        Scanner stdin=new Scanner(System.in);
        System.out.println("Enter 2 nos :");
        int a=stdin.nextInt( );
        int b=stdin.nextInt( );

         if ( a>b )
                System.out.println("Greatest Number is " + a );
        else
                System.out.println("Greatest Number is " + b );
        }
}
```

WAP to read 2 nos and find greatest of them.

Output :

```
Enter 2 nos:
5 12
Greatest Number is 12
```

```
import java.util.Scanner;
class demo
{
public static void main(String args[])
        {
        Scanner stdin=new Scanner(System.in);
        System.out.println("Enter 2 nos :");
        int a=stdin.nextInt( );
        int b=stdin.nextInt( );

         int m = a > b   ? a : b ;

        System.out.println("Greatest Number is "+m);
        }
}
```

WAP to read 2 nos and find greatest of them.

Output :

Enter 2 nos:

5 12

Greatest Number is 12

```
condition ? expression1 : expression2
```

```
import java.util.Scanner;
class demo
{
public static void main(String args[])
        {
        Scanner stdin=new Scanner(System.in);
        System.out.println("Enter 2 nos :");
        int a=stdin.nextInt( );
        int b=stdin.nextInt( );

        System.out.println( "Greatest Number is " + ( a>b ? a : b ) ) ;
        }
}
```

WAP to read 2 nos and find greatest of them.

Output :

Enter 2 nos:

5 12

Greatest Number is 12

```
condition ? expression1 : expression2
```

```
import java.util.Scanner;
class demo
{
public static void main(String args[])
        {
        Scanner stdin=new Scanner(System.in);
        System.out.println("Enter 4 nos :");
        int a=stdin.nextInt( );
        int b=stdin.nextInt( );
        int c=stdin.nextInt( );
        int d=stdin.nextInt( );
        int x = a > b   ? a : b ;
        int y = c > d   ? c : d ;
        int z = x > y   ? x : y ;
        System.out.println("Greatest Number is "+z);
        }
}
```

a=5 b=12

c=23 d=7

X=12

Y=23

Z=23

WAP to read 4 nos and find greatest of them.

Output :

Enter 4 nos:

5 12 23 7

Greatest Number is 23

```
import java.util.Scanner;
class demo
{
public static void main(String args[])
        {
        Scanner stdin=new Scanner(System.in);
        System.out.println("Enter Basic  :");
        int basic=stdin.nextInt( );
        int hra = basic > 10000   ? 5000 : 3000 ;
        int ta = basic > 15000   ? 2000 : 1000 ;
        int itax = basic > 20000   ? 2500 : 0 ;
        int netsal = basic + hra + ta – itax  ;

        System.out.println("Net Salary is  " + netsal );
        }
}
```

WAP to read Basic Salary of person and calculate netSalary according to following criteria.

NetSal=Basic +HRA +TA- Itax

HRA	BASIC
5000	>=10000
3000	<10000

TA	BASIC
2000	>=15000
1000	<15000

ITax	BASIC
2500	>=20000
0	<20000

```
Basic = 17000
hra = 5000
ta = 2000
itax = 0
netsal = 24000
```

Output :

Enter Basic Salary: 17000

Net Salary is 24000

```
import java.util.Scanner;
class demo
{
public static void main(String args[])
        {
        Scanner stdin=new Scanner(System.in);
        System.out.println("Enter Units  :");
        int units=stdin.nextInt( );
        int rate = units > 300   ? 5 : 3 ;
        int extracharges = units > 1000   ? 500 : 0 ;
        int billamt = units * rate + extracharges  ;

        System.out.println("Bill Amount is  " + billamt );
        }
}
```

WAP to read Electricity Units and calculate BillAmt according to following criteria.

BillAmt=Units*Rate +ExtraChanges

Rate	Units
5	>=300
3	<300

ExtraCharges	Units
500	>=1000
0	<1000

```
units = 600
rate = 5
extracharges=0
billamt = 3000
```

Output :

Enter Units: 600

Bill Amount is 3000

Todays Topic End