```
Java Variable Example: Add Two Numbers
```

```
public class Simple{
public static void main(String[] args){
int a=10:
int b=10;
int c=a+b;
System.out.println(c);
}
   Java Variable Example: Widening
public class Simple{
public static void main(String[] args){
int a=10;
float f=a;
System.out.println(a);
System.out.println(f);
}}
   Java Unary Operator Example: ++ and --
   public class OperatorExample{
   public static void main(String args[]){
   int x=10;
   System.out.println(x++);//10 (11)
   System.out.println(++x);//12
   System.out.println(x--);//12 (11)
   System.out.println(--x);//10
   }}
         Java Arithmetic Operator Example
public class OperatorExample{
public static void main(String args[]){
int a=10;
int b=5;
System.out.println(a+b);//15
System.out.println(a-b);//5
System.out.println(a*b);//50
System.out.println(a/b);//2
System.out.println(a%b);//0
}}
```

#### Java Arithmetic Operator Example: Expression

```
public class OperatorExample{
public static void main(String args[]){
System.out.println(10*10/5+3-1*4/2);
}}
```

#### Java Left Shift Operator Example

```
public class OperatorExample{
public static void main(String args[]){
System.out.println(10 < < 2);//10*2^2=10*4=40
System.out.println(10 < < 3);//10*2^3=10*8=80
System.out.println(20 < < 2);//20*2^2=20*4=80
System.out.println(15 < < 4);//15*2^4=15*16=240
}}</pre>
```

## Java Right Shift Operator Example

```
public OperatorExample{
public static void main(String args[]){
System.out.println(10>>2);//10/2^2=10/4=2
System.out.println(20>>2);//20/2^2=20/4=5
System.out.println(20>>3);//20/2^3=20/8=2
}}
```

# Java AND Operator Example: Logical && and Bitwise &

```
public class OperatorExample{
public static void main(String args[]){
int a=10;
int b=5;
int c=20;
System.out.println(a<b&&a<c);//false && true = false
System.out.println(a<b&a<c);//false & true = false
}}</pre>
```

## Java OR Operator Example: Logical | and Bitwise |

```
public class OperatorExample{
public static void main(String args[]){
int a=10;
int b=5:
int c=20;
System.out.println(a > b || a < c);//true || true = true
System.out.println(a>b|a<c);//true | true = true
//|| vs |
System.out.println(a > b||a++< c);//true || true = true
System.out.println(a);//10 because second condition is not checked
System.out.println(a>b|a++<c);//true | true = true
System.out.println(a);//11 because second condition is checked
}}
   Java Ternary Operator Example
public class OperatorExample{
public static void main(String args[]){
int a=2;
int b=5;
int min=(a<b)?a:b;</pre>
System.out.println(min);
}}
   Java Assignment Operator Example
public class OperatorExample{
public static void main(String args[]){
int a=10;
int b=20;
a+=4;//a=a+4 (a=10+4)
b=4;//b=b-4 (b=20-4)
System.out.println(a);
System.out.println(b);
}}
```