

Example 1:

```
public class MyClass {
```

```
    public static void main(String args[]) {
```

```
        int i = 10;
```

```
        int j = i++ + -i++ + -i++;
```

```
        System.out.println(i);
```

```
        System.out.println(j);
```

```
    }
```

```
}
```

Output

13

-13

Example 2:

```
public class MyClass {
```

```
    public static void main(String args[]) {
```

```
int i = 10;
```

```
int j = i++ + -i++ + -i++ + i++ + -++i;
```

```
System.out.println(i);
```

```
System.out.println(j);
```

```
}
```

```
}
```

Output:

15

-15

Types Of Variables in java:

1. local variable
2. static variable
3. non static variable
4. Reference variable - reference variable stores objects address

Syntax

notepad

Datatype: Class Name

Value is being stored through new keyword

Local reference variable:

This variables are created inside a method and should be used only within created method.

Example 1:

```
public class A {
```

```
    public static void main(String args[]) {
```

```
        A a1 = new A();//a1 is local to main method
```

```
        System.out.println(a1);
```

```
        a1.test();
```

```
    }
```

```
    public void test(){
```

```
        System.out.println(a1);
```

```
        //Error
```

```
    }
```

```
}
```

Output: Error because a1 is local reference variable and should not be used outside created method

Example 2:

```
public class A {
```

```
    public static void main(String args[]) {
```

```
        A a1 ;
```

```
        System.out.println(a1);
```

```
    }
```

```
}
```

Output: Error because we should not use a1 without initializing it as this variable is local

static reference variable:

Static reference has global access and these variables can be used any where in the program

Example 1:

```
public class A {
```

```
static A a1 = new A();
```

```
public static void main(String args[]) {
```

```
    System.out.println(a1);
```

```
    a1.test();
```

```
}
```

```
public void test(){
```

```
    System.out.println(a1);
```

```
}
```

```
}
```

Output:

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