

3. Keywords/Reserved Words:

If any predefined word has word recognition and internal functionality then that Predefined word is called as Keyword.

If any predefined word has only word recognition with out internal functionality then that Predefined word is called as Reserved Word.

EX:

const, goto

Examples for keywords:

1. Data Types and Return Types:

byte, short, int, long, float, double, char, boolean, void,....

2. Access Modifiers :

public, protected, private, static, final, abstract, native, volatile, transient, synchronized, strictfp,.....

3. Flow Controllers:

if, else, switch, case, default, for, while, do, break, continue, return,....

4. Class / Object Related keywords:

class, extends, interface, implements, package, import, new, this, super, enum, ..

5. Exception Handling Related Keywords:

throws, throw, try, catch, finally

4. Operators:

Operator is a symbol, it will perform a particular operation over the provided
operands.

1. Arithmetic Operators:

+, -, *, /, %, ++, --

2. Assignment Operators:

=, +=, -=, *=, /=, %=

3. Comparision Operators:

==, !=, <, >, <=, >=

Ternary Operator:

Expr1? Expr2: Expr3;

Short-Circuit Operators:

I
&&, ||

```

1 class Test
2 {
3     public static void main(String[] args)
4     {
5         int a = 10;
6         System.out.println(a);
7         System.out.println(a++);
8         System.out.println(++a);
9         System.out.println(a--);
10        System.out.println(--a);
11        System.out.println(a);
12    }
13 }
14

```

<pre> int a = 5; a 6 Sopln(++a); 6 1. Incrementation 2. Display value </pre>	<pre> int a = 5; a 6 Sopln(a++); 5 1. Display Value 2. Incrementation </pre>
<pre> int a = 5; a 4 Sopln(--a); 4 1. Decrementation 2. Display value </pre>	<pre> int a = 5; a 4 Sopln(a--); 5 1. Display Value 2. Decrementation </pre>

```

1 class Test
2 {
3     public static void main(String[] args)
4     {
5         int a = 5;
6         System.out.println(++a); // a = a + 1
7         System.out.println(a);
8     }
9 }
10

```

```
1 class Test
2 {
3     public static void main(String[] args)
4     {
5         int a = 5;
6         System.out.println(--a); //a = a - 1, a = 4
7         System.out.println(a);
8     }
9 }
10
```

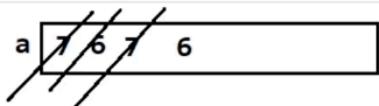
int a = 7;

--a - ++a + --a

6 - 7 + 6

-1 + 6

 5



```
class Test
{
    public static void main(String[] args)
    {
        int a = 7;
        System.out.println(--a-++a---a);
    }
}
```

```
1 class Test
2 {
3     public static void main(String[] args)
4     {
5         int a = 6;
6         System.out.println(++a---a);
7     }
8 }
9
```

```
int a = 5;                                a | 5 6 7 6 7 8 9 8 7
                                              |-----|
(a++ - ++a) + (--a + a++) * (++a + a++) - (--a + --a)
(5 - 7) + (6 + 6) * (8 + 8) - (8 + 7)
-2 + 12 * 16 - 15
-2 + 192 - 15
190 - 15
```