```
int a = 10;
   ⇧
primitive type
```

4 bytes

```
a  | 10 |
```

local variable   => stack
instance variable => heap
static variable   => methodarea(heaparea)

JDK1.5V Wrapper classes are introduced
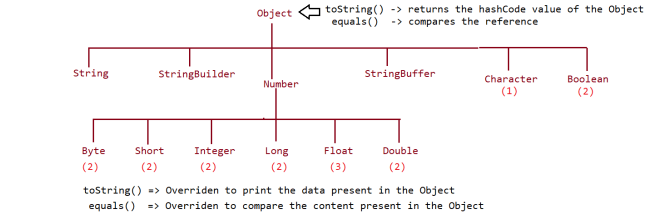
```
Integer a = 10;
    ⇧
reference type
```

Heap

a → (10) .parseInt()
             toString()
             valueOf()

Present in "java.lang" package

Object ⇦ toString() -> returns the hashCode value of the Object
         equals() -> compares the reference

String   StringBuilder   StringBuffer   Character   Boolean
                   Number   (1)   (2)

Byte   Short   Integer   Long   Float   Double
(2)   (2)   (2)   (2)   (3)   (2)

toString() => Overriden to print the data present in the Object
equals()   => Overriden to compare the content present in the Object

```
class Test
{
    int i;
    Test(int i){
        this.i = i;
    }
    public Test modify(int i){
        if (this.i == i)
            return this;
        else
            return new Test(i);
    }
    public static void main(String[] args)
    {
        Test t1 = new Test(10);
        Test t2 = t1.modify(10);

        Test t3 = t1.modify(100);

        Test t4 = t3.modify(100);

        System.out.println(t1==t2);//true
        System.out.println(t1==t3);//false
        System.out.println(t2==t3);//false
        System.out.println(t3==t4);//true

    }

}
```

t1 →
t2 → (i = 10)

t3 →
t4 → (i = 100)

Method Area

.class files

StackArea (local variables)

heaparea (object data)

instance varaiables

JRE