

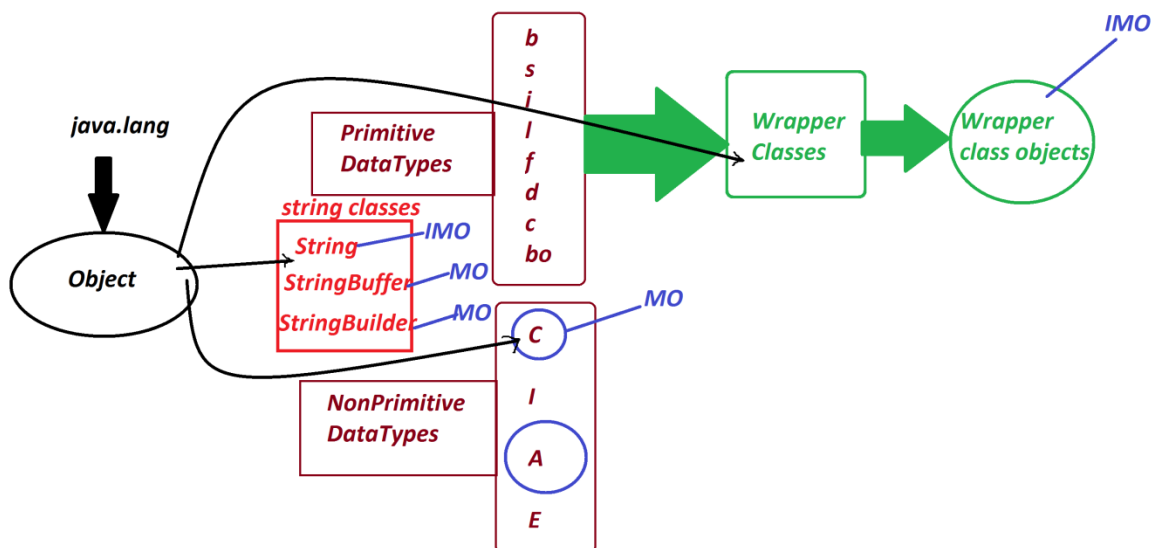
Dt : 24/9/2022

**imp*

"Object" class:

=> "Object" class from `java.lang` package and which is **ParentClass** or **SuperClass** of all the classes declared in the application.

Diagram:



=>The following are some important methods of "Object" class:

1. `hashCode()`

2. `toString()`

3. `equals()`

4. `clone()`

5. `wait()`

6. `notify()`

7.notifyAll()

8.getClass()

9.finalize()

=====

***imp**

Arrays in Java:

=>The sequenced collection of elements of same datatype is known as array.

(or)

=>The sequenced collection of objects generated from same class is known as array.

(or)

=>The sequenced collection of similar objects is known as array.

Types of Arrays:

=>Arrays in Java are categorized into two types:

1.Single Dimensional Arrays

2.Multi Dimensional Arrays

1.Single Dimensional Arrays:

=>The arrays which are declared with one dimension are known as S-D Arrays or 1-D Arrays.

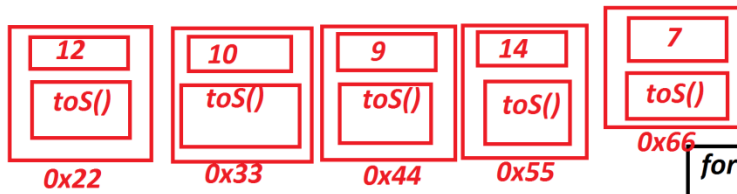
syntax:

`Class_name arr_var[] = new Class_name[size];`

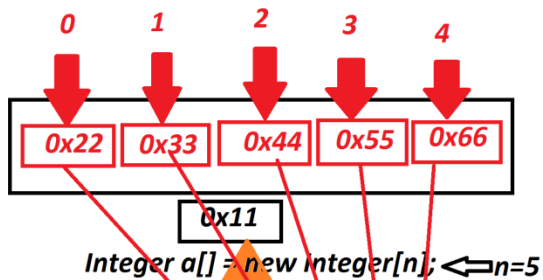
Ex-1 :

wap to read and display Integer WrapperClass objects using Array?

```
package maccess;
import java.util.*;
public class DemoArray1 {
    public static void main(String[] args) {
        Scanner s = new Scanner(System.in);
        System.out.println("Enter the number of Integer
Objects:");
        int n = s.nextInt();
        Integer a[] = new Integer[n];
        System.out.println("Enter "+n+" Integer Objects");
        for(int i=0;i<=n-1;i++)
        {
            a[i] = new Integer(s.nextInt());
            //Adding Integer object to Array
        } //end of loop
        System.out.println("====Display Using Old for
loop====");
        for(int i=0;i<=n-1;i++)
        {
            System.out.println(a[i].toString());
        } //end of loop
        System.out.println("===Display Using Extended
for(Java5)===");
        for(Integer k : a)
        {
            System.out.println(k.toString());
        } //end of loop
        s.close();
    }
}
```



```
for(int i=0;i<=n-1;i++)
{
    a[i] = new Integer(s.nextInt());
}
```



This ref will hold 5 Integer Objects

```
for(int i=0;i<=n-1;i++)
{
    Sop(a[i].toString());
}
```

`a[i].toString()`
`a[0].toString()`
`0x11[0].toString()`
`0x22.toString()`

```
for(Integer k : a)
{
    Sop(k.toString());
}
```

Venka