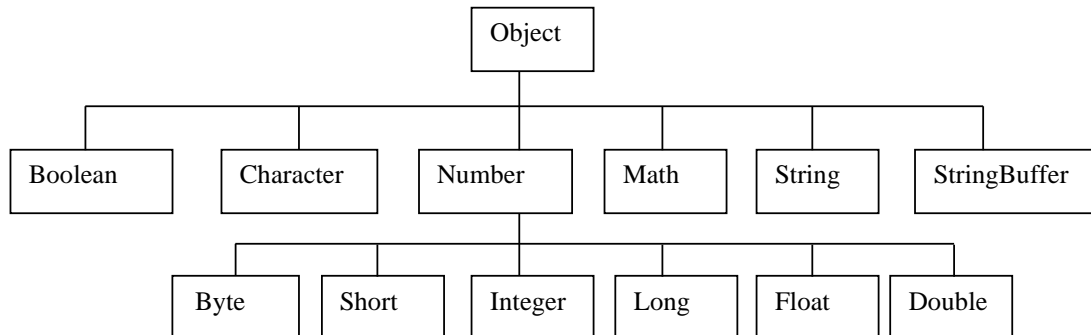## THE OBJECT CLASS

The Object class **is the parent class of all the classes in java by default** (directly or indirectly). The java.lang.Object class is the root of the class hierarchy. Some of the Object class are Boolean, Math, Number, String etc.

```
                          Object
   ┌────────┬──────────┬───────┬────────┬────────┬──────────────┐
Boolean  Character  Number   Math    String   StringBuffer
                       │
        ┌───────┬──────┼───────┬───────┬────────┐
      Byte    Short  Integer  Long   Float   Double
```

Object class Methods	Description
boolean equals(Object)	Returns true if two references point to the same object.
String toString()	Converts object to String
void notify() void notifyAll() void wait()	Used in synchronizing threads
void finalize()	Called just before an object is garbage collected
Object clone()	Returns a new object that are exactly the same as the current object
int hashCode()	Returns a hash code value for the object.

Example:

```
public class Test
{
    public static void main(String[] args)
    {
                                                    /*hashcode is the unique number generated by JVM*/
        Test t = new Test(); System.out.println(t);

        System.out.println(t.toString());      // provides String representation of an Object

        System.out.println(t.hashCode());

        System.out.println("end");
    }
    protected void finalize()  // finalize() is called just once on an object
    {
        System.out.println("finalize method called");
    }
```

Sample Output:

Test@2a139a55

Test@2a139a55

705927765