

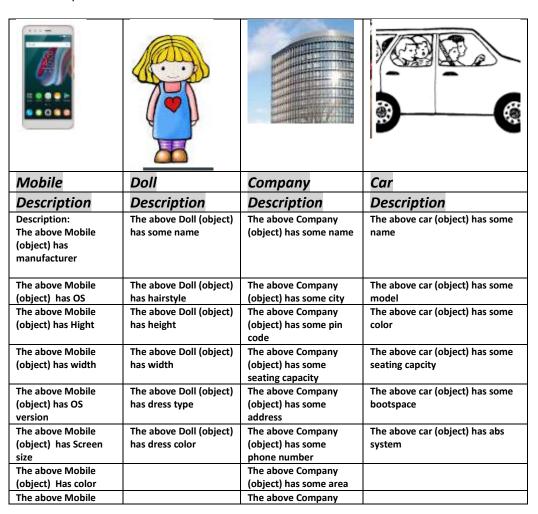
# 00P

## What is Object?

Any physical entity which you can touch is an object.

So if we want to describe any object then what we do....look below table and understand In below example we are going to describe given below 4 objects....

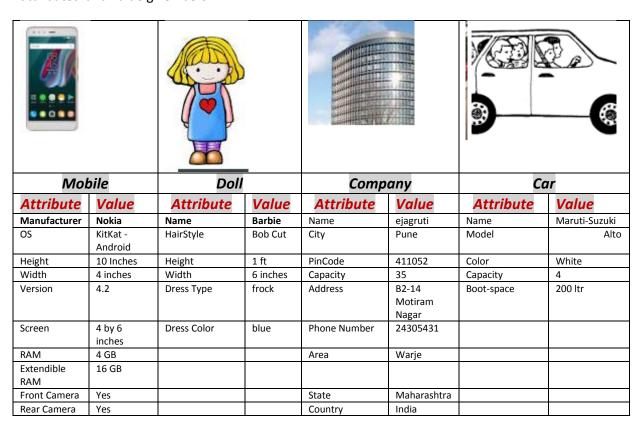
#### For example:



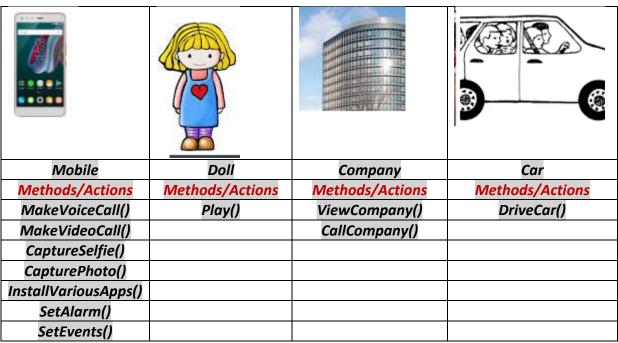


| (object) has<br>Extendible RAM                      | (object) has some state                     |
|---|---|
| The above Mobile<br>(object) has External<br>Memory | The above Company (object) has some country |
| The above Mobile<br>(object) has front<br>camera    |   |
| The above Mobile<br>(object) has rear<br>camera     |   |
| And so on   |   |

In order to represent the above said objects in programming what we do is we identify their attributes and value given below







So every object has some predefined attributes and every attributes has some value associated with that. And every object can perform some operations/methods/actions.

### What is Class Then?

## Class is a blue print which will describe the attributes and methods of that object.



All Above Objects are having same attribute Name but their values are different. All the above 4 objects are belonging to Mobile Class

Class Name: Doll

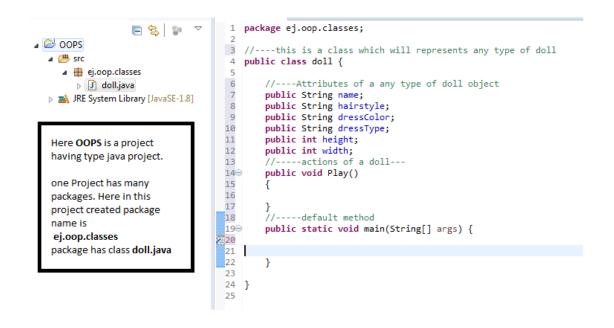




All Above Objects are having same attribute Name but their values are different. All the above 4 objects are belonging to Doll Class



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```
1 package ej.oop.classes;

■ OOPS

                                      //----this is a class which will represents any type of doll
  public class mobile {
     🛮 🌐 ej.oop.classes
                                          //----Attributes of a any type of mobile object
       public String manufacturer;
       D mobile.java
                                          private String os;
                                 <u></u> 8
  protected boolean frontcamera;
                                          protected boolean rearcamera;
                                          public static int height;
                                  11
                                          public static int width;
                                  12
                                          public double version;
                                  13
                                  14
                                          public String screen;
                                  15
                                          public int RAM;
                                          int extendible_ram;
                                  16
    Here public, private,
                                  17
                                          //----actions of a mobile---
                                  18
    protected are the visibility
                                  19⊖
                                          public void MakeVideoCall()
    types. Which tells
                                  20
    program that which
                                  21⊝
                                          public void MakeVoiceCall()
    variables and which
                                  22
                                          public void captureSelfie()
                                  23⊝
    methods make visible
                                  24
    while programming.
                                  25⊝
                                          public void CapturePhoto()
                                  26
                                  27⊝
                                          public void SetAlarms()
                                  28
                                  29⊝
                                          public void SetEvents()
                                          { }
//----default method
                                  30
                                  31
                                  32⊖
                                          public static void main(String[] args) {
                                 <u>@</u>33
                                             // TODO Auto-generated method stub
```

34 35

36

}