

## Types of Variables

### Instance Variable

- 1) A Variable which is declared **Inside the class** and **Outside the method, Constructor** or **Any Block**.
- 2) Instance variables are created at the time of **Object creation** and destroyed at the time of **Object destruction**.
- 3) The **Scope of the Instance Variable** is exactly same as **Scope of the Object**.
- 4) Instance variables are stored in the **Heap Memory** as the part of Object.
- 5) Instance variables are available for entire **Class, Methods, Constructors and Blocks**.
- 6) We can't access instance Variable directly from **Static Method area**, but we can access by using **Object**.
- 7) But, we can access **Instance variables** directly from the **Instance Method area**.
- 8) For, every **Object** a separate copy of **Instance variable** is created.

```
public class Example01 {  
  
    int a = 10;  
    int b = 20;  
  
    public static void main(String[] args) {  
  
    }  
  
    public Example01() {  
  
    }  
  
    {  
  
    }  
}
```

A Variable which is declared **Inside the class** and **Outside the Method, Constructor** or **Any Block**.

```
public class Example01 {  
  
    int a = 10;  
    int b = 20;  
  
    public static void main(String[] args) {  
  
        Example01 e = new Example01();  
  
        System.out.println(e.a);  
        System.out.println(e.b);  
  
    }  
}
```



Object Creation

**Instance variables** is created at the time of **Object creation** and **Destroyed** at the time of **Object destruction**.