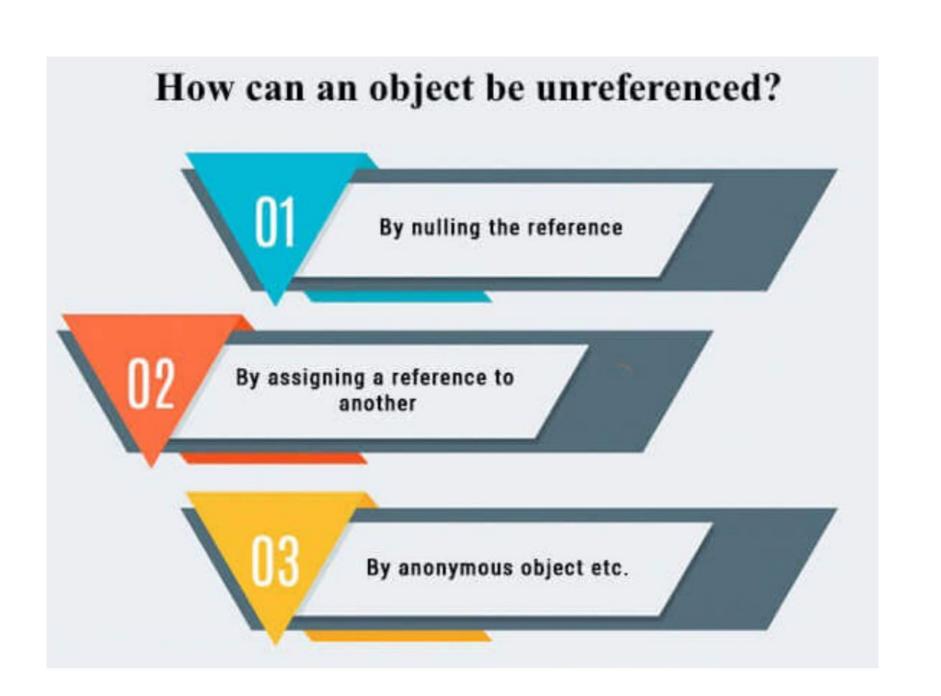
Memory Management

## Memory Management

- 1. process of allocation and de-allocation of objects
- 2. Java does memory management automatically.
- 3. Java uses an automatic memory management system called a **garbage collector**.(garbage means unreferenced objects)

## Enhancement in Garbage Collector

- 1. Lowest Priority Daemon Thread
- 2. Runs in the background when JVM starts
- 3. Collects all the unreferenced objects
- 4. Frees the space occupied by these objects
- 5. Call System.gc() method to "hint" the JVM to invoke the garbage collector



## Finalize() method

- 1. finalize() method is invoked each time before the object is garbage collected. This method can be used to perform cleanup processing.
- 2. Syntax:

3. The gc() method is used to invoke the garbage collector to perform cleanup processing.

## Example

```
public class Main{
public void finalize()
     System.out.println("object is garbage collected");
public static void main(String args[]){
 Main s1=new Main();
 Main s2=new Main();
  s1=null;
  s2=null;
 System.qc();
```