

How many ways can we have an object eligible for Garbage Collector :

- 1) Every time, we have to create an object

```

class Employee {
    public Employee(string name, int age) {
        Console.WriteLine("Employee constructor");
    }
}

Employee emp1 = new Employee("John", 30);
    
```

Employee Object (100%)

Employee constructor  
John 30

- 2) Every time, we have to create an object and then immediately release it.

```

class Employee {
    public Employee(string name, int age) {
        Console.WriteLine("Employee constructor");
    }
}

Employee emp2 = new Employee("John", 30);
emp2 = null;
    
```

Employee Object (100%)

Employee constructor  
John 30

emp2 = null

Both the above approaches were adopted in C#6.0. In the first approach, we have to use the finalizer to release the memory.

(1) Create a class named Main with one method.

public class Main {
 public static void Main() {
 Employee emp1 = new Employee("John", 30);
 }
}

Main Method

Employee Object (100%)

Employee constructor  
John 30

emp1

(2) Create a class named Main with one method.

public class Main {
 public static void Main() {
 Employee emp1 = new Employee("John", 30);
 emp1 = null;
 }
}

Main Method

Employee Object (100%)

Employee constructor  
John 30

emp1

emp1 = null

Both the above approaches were adopted in C#6.0. In the first approach, we have to use the finalizer to release the memory.

3) Keeping a link to an existing reference variable

Present g1 = new Product("G1", "G1", 100);

Global Variable

Product Object (100%)

G1 G1 100

g1

4) Keeping a link to an existing reference variable

Present g1 = new Product("G1", "G1", 100);

Local Variable

Product Object (100%)

G1 G1 100

g1

Both the above approaches were adopted in C#6.0. In the first approach, we have to use the finalizer to release the memory.

5) Keeping a link to an existing reference variable

Present g1 = new Product("G1", "G1", 100);

Local Variable

Product Object (100%)

G1 G1 100

g1

g1 = null

Both the above approaches were adopted in C#6.0. In the first approach, we have to use the finalizer to release the memory.

```

private void main()
{
    public Customer(long name, int id)
    {
        this.name = name;
        this.id = id;
    }

    public void setid(int id)
    {
        this.id = id;
    }

    public int getid()
    {
        return id;
    }

    public void print()
    {
        System.out.println("Customer[" + name + ", " + id);
    }
}

public void main(String[] args)
{
    int i = 0;
    Customer c = new Customer("Hari", 2);
    c.print();
    ((Customer) c).setid(10);
    c.print();
}

public class Customer
{
    long name;
    int id;

    public Customer(long name, int id)
    {
        this.name = name;
        this.id = id;
    }

    public void print()
    {
        System.out.println("Customer[" + name + ", " + id);
    }

    public void setid(int id)
    {
        this.id = id;
    }

    public int getid()
    {
        return id;
    }
}

```