```
class Employee
{
        private int ID;
         private String name;
        private int age;
        private static int nextId=1;
        public Employee(String name,int age)
        {
                this.name = name;
                this.age = age;
                this.ID = nextId++;
        }
          public void show()
        {
                   System.out.println
                  ("Id="+ID+"\nName="+name+"\nAge="+age);
        }
         public void showNextId()
        {
                   System.out.println
                 ("Next employee id will be="+nextId);
        }
}
class UseEmployee
{
        public static void main(String []args)
        {
                Employee E=new Employee("GFG1",56);
                Employee F=new Employee("GFG2",45);
                Employee G=new Employee("GFG3",25);
                E.show();
                F.show();
                G.show();
                E.showNextId();
                F.showNextId();
                G.showNextId();
```

```
                { //It is sub block to keep
                        Employee X=new Employee("GFG4",23);
                       Employee Y=new Employee("GFG5",21);
                       X.show();
                       Y.show();
                       X.showNextId();
                       Y.showNextId();
                }
            //After countering this brace, X and Y
             //will be removed.Therefore,
            //now it should show nextId as 4.
            E.showNextId();//Output of this line
            //should be 4 but it will give 6 as output.
        } //end of main
}/end of class
```

Output:

```
Id=1
Name=GFG1
Age=56
Id=2
Name=GFG2
Age=45
Id=3
Name=GFG3
Age=25
Next employee id will be=4
Next employee id will be=4
Next employee id will be=4
Id=4
Name=GFG4
Age=23
Id=5
Name=GFG5
Age=21
```

```
Next employee id will be=6
Next employee id will be=6
Next employee id will be=6
```

```
//revised program
class Employee
{
        private int ID;
         private String name;
        private int age;
        private static int nextId=1;
        public Employee(String name,int age)
        {
                this.name = name;
                this.age = age;
                this.ID = nextId++;
        }
          public void show()
        {
                   System.out.println
                  ("Id="+ID+"\nName="+name+"\nAge="+age);
        }
         public void showNextId()
        {
                   System.out.println
                 ("Next employee id will be="+nextId);
        }
        protected void finalize()
        {
                --nextId;
                  //In this case,
                //gc will call finalize()
```

```
            //for 2 times for 2 objects.
        }
}
class UseEmployee
{
        public static void main(String []args)
        {
                Employee E=new Employee("GFG1",56);
                Employee F=new Employee("GFG2",45);
                Employee G=new Employee("GFG3",25);
                E.show();
                F.show();
                G.show();
                E.showNextId();
                F.showNextId();
                G.showNextId();

                        { //It is sub block to keep
                                Employee X=new Employee("GFG4",23);
                                Employee Y=new Employee("GFG5",21);
                                X.show();
                                Y.show();
                                X.showNextId();
                                Y.showNextId();
                                X = Y = null;
                                System.gc();
                                System.runFinalization();
                        }
                E.showNextId();//Output of this line

        } //end of main
}/end of class
```

Output:

```
Id=1
Name=GFG1
Age=56
Id=2
Name=GFG2
Age=45
Id=3
Name=GFG3
Age=25
Next employee id will be=4
Next employee id will be=4
Next employee id will be=4
Id=4
Name=GFG4
Age=23
Id=5
Name=GFG5
Age=21
Next employee id will be=6
Next employee id will be=6
Next employee id will be=4
```