Use of static & non-static

static members are connected to the class, whereas Non-static members are linked to specific class instances. I

1: Associated with

Static: Static members (variables and methods) are associated with the class itself rather than with individual instances/objects. Non-Static: Non-static members are specific to each instance/object of a class, as they are tied to objects created from the class.

2: Memory Allocation(*)

Static: Static members are allocated memory only once, at the time of class loading. They are shared among all instances of the class. Non-Static: Non-Static members have memory allocated separately for each instance of the class. Each object has its own copy of non-static members.

3: Initialization

Static: Static members are initialized when the class is loaded into memory, typically during program startup. Initialization happens only once

Non-Static: Non-static members are initialized when each instance of the class is created, usually using the new keyword. Initialization occurs separately for each object.

4: Usage

Static: Static members are commonly used for utility methods, constants, or variables that are not specific to individual instances. For example, a Math class containing mathematical functions.

Non-Static: Non-static members are used for instance-specific behaviour, as they hold data specific to each object. For example, instance variables that store unique values for each object.

```
package UseOf_Static_NonStatic;
public class Emp
           String empName;
           int empld;
           String empCEOName; //non-static
           Emp(String name, int id, String ceo)
                       empName=name;
                       empId=id;
                       empCEOName=ceo;
           }
           public void empInfo()
                       System. out. println(empName+ ":"+empId+":"+empCEOName);
}
package UseOf_Static_NonStatic;
public class EmployeeData
           public static void main(String[] args)
                       Emp e1=new Emp("amol", 101, "abc");
Emp e2=new Emp("Rohan", 102, "abc");
                       Emp e3=new Emp("pallavi", 103, "xyz");
                       e1.empInfo();
                       e2.empInfo();
                       e3.empInfo();
           }
}
package UseOf_Static_NonStatic;
public class Emp2
           String empName;
           int empld;
           static String empCEOName;
           Emp2(String name, int id)
                       empName=name;
                       empld=id;
           }
           public void empInfo()
                       System.out.println(empName+ ":"+empId+":"+empCEOName);
           }
}
package UseOf_Static_NonStatic;
public class EmployeeData2
           public static void main(String[] args)
                       Emp2 e1=new Emp2("amol", 101);
                       Emp2.empCEOName="abc";
                       Emp2 e2=new Emp2("Rohan", 102);
                       Emp2.empCEOName="abc";
                       Emp2 e3=new Emp2("pallavi", 103);
                       Emp2.empCEOName="xyz";
                       e1.empInfo();
                       e2.empInfo();
                       e3.empInfo();
           }
}
```