**Static Variable   :** Static method can access only static variable.

**Instance Variable :** Static and non-static(both) method can access Instance variable.

**Static Method** : Static method can access only static Method.

**Instance Method** : Static and non-static(both) method can access Instance Method.

**Static Calss :** We can't Create Static Outer Class.

1. **Instance Method/ Static Method,** Static or Non-Static Data(Method or Variable) ko Direct access kar sakte he.
2. **Static Method ,** Only Static Data(Method or Variable) ko Direct access kar sakte he.

class A

**{**

    int x **=** 100**;**

    void show**()**

**{**

        System**.**out**.**println**(**"X : " **+** x**);**

**}**

**}**

class Q01\_Static\_Class

**{**

    public static void main**(**String args**[])**

**{**

        A a **=** **new** A**();**

        a**.**show**();**

**}**

**}**

Output : X : 100

class A

**{**

    int x **=** 100**;**

    static void show**()**

**{**

        System**.**out**.**println**(**"X : " **+** x**);**

**}**

**}**

class Q02\_Static\_Class

**{**

    public static void main**(**String args**[])**

**{**

        A a **=** **new** A**();**

        a**.**show**();**

**}**

**}**

 error: non-static variable x cannot be referenced from a static context

                System.out.println("X : " + x);

                                            ^

-----------------------------------------------------------------------------------------------

class A

**{**

    static int x **=** 100**;**

    static void show**()**

**{**

        System**.**out**.**println**(**"X : " **+** x**);**

**}**

**}**

class Q03\_Static\_Class

**{**

    public static void main**(**String args**[])**

**{**

        A a **=** **new** A**();**

        a**.**show**();**

**}**

**}**

 X : 100

-----------------------------------------------------------------------------------------------

class A

**{**

    int x **=** 100**;**

    void show2**()**

**{**

        System**.**out**.**println**(**"Show - 2"**);**

**}**

    void show1**()**

**{**

        show2**();**

        System**.**out**.**println**(**"X : " **+** x**);**

**}**

**}**

class Q04\_Static\_Class

**{**

    public static void main**(**String args**[])**

**{**

        A a **=** **new** A**();**

        a**.**show1**();**

**}**

**}**

Show - 2

X : 100

-----------------------------------------------------------------------------------------------

class A

**{**

    int x **=** 100**;**

    void show2**()**

**{**

        System**.**out**.**println**(**"Show - 2"**);**

**}**

    static void show1**()**

**{**

        show2**();**

        System**.**out**.**println**(**"X : " **+** x**);**

**}**

**}**

class Q05\_Static\_Class

**{**

    public static void main**(**String args**[])**

**{**

        A a **=** **new** A**();**

        a**.**show1**();**

**}**

**}**

error: non-static method show2() cannot be referenced from a static context

                show2();

                ^

Q05\_Static\_Class.java:12: error: non-static variable x cannot be referenced from a static context

                System.out.println("X : " + x);

                                            ^

-----------------------------------------------------------------------------------------------

class A

**{**

    int x **=** 100**;**

    void show2**()**

**{**

        System**.**out**.**println**(**"Show - 2"**);**

**}**

    static void show1**()**

**{**

        A a **=** **new** A**();**

        a**.**show2**();**

        System**.**out**.**println**(**"X : " **+** x**);**

**}**

**}**

class Q06\_Static\_Class

**{**

    public static void main**(**String args**[])**

**{**

        A a **=** **new** A**();**

        a**.**show1**();**

**}**

**}**

error: non-static variable x cannot be referenced from a static context

                System.out.println("X : " + x);

                                            ^

-----------------------------------------------------------------------------------------------

class A

**{**

    int x **=** 100**;**

    void show2**()**

**{**

        System**.**out**.**println**(**"Show - 2"**);**

**}**

    static void show1**()**

**{**

        A a **=** **new** A**();**

        a**.**show2**();**

        System**.**out**.**println**(**"X : " **+** a**.**x**);**

**}**

**}**

class Q07\_Static\_Class

**{**

    public static void main**(**String args**[])**

**{**

        A a **=** **new** A**();**

        a**.**show1**();**

**}**

**}**

Show - 2

X : 100

-----------------------------------------------------------------------------------------------

class A

**{**

    static int x **=** 100**;**

**}**

class Q08\_Static\_Class

**{**

    public static void main**(**String args**[])**

**{**

        System**.**out**.**println**(**"X : " **+** A**.**x **);**

**}**

**}**

Output : X : 100

class Q09\_Static\_Class

**{**

    static int x **=** 100**;**

    public static void main**(**String args**[])**

**{**

        System**.**out**.**println**(**"X : " **+** x **);**

**}**

**}**

Output : X : 100

------------------------------------------------------------------------------------

class Q10\_Static\_Class

**{**

    int x **=** 100**;**

    public static void main**(**String args**[])**

**{**

        System**.**out**.**println**(**"X : " **+** x **);**

**}**

**}**

Output :

error: non-static variable x cannot be referenced from a static context

                System.out.println("X : " + x );

                                            ^

------------------------------------------------------------------------------------

class Q11\_Static\_Class

**{**

    int x **=** 100**;**

    public static void main**(**String args**[])**

**{**

        Q11\_Static\_Class q11 **=** **new** Q11\_Static\_Class**();**

        System**.**out**.**println**(**"X : " **+** q11**.**x **);**

**}**

**}**

Output : X : 100

------------------------------------------------------------------------------------

static class Q12\_Static\_Class

**{**

    int x **=** 100**;**

    public static void main**(**String args**[])**

**{**

        Q11\_Static\_Class q11 **=** **new** Q11\_Static\_Class**();**

        System**.**out**.**println**(**"X : " **+** q11**.**x **);**

**}**

**}**

Output :

error: modifier static not allowed here

static class Q12\_Static\_Class

       ^

------------------------------------------------------------------------------------