

```

1. public class TypeCastingDemo {

    public static void main(String[] args) {

        // Implicit Casting (Widening Conversion)

        int intValue = 10;

        long longValue = intValue;

        float floatValue = longValue;

        double doubleValue = floatValue;

        System.out.println("Implicit Casting: " + intValue + " -> " + longValue + " -> " +
floatValue + " -> " + doubleValue);


        // Explicit Casting (Narrowing Conversion)

        double doubleVal = 10.5;

        float floatVal = (float) doubleVal;

        long longVal = (long) floatVal;

        int intVal = (int) longVal;

        System.out.println("Explicit Casting: " + doubleVal + " -> " + floatVal + " -> " + longVal +
" -> " + intVal);

    }

}

```

Output:

```

1 package java1;
2 public class TypeCastingDemo {
3     public static void main(String[] args) {
4         // Implicit Casting (Widening Conversion)
5         int intValue = 10;
6         long longValue = intValue;
7         float floatValue = longValue;
8         double doubleValue = floatValue;
9         System.out.println("Implicit Casting: " + intValue + " -> " + longValue + " ->
10         // Explicit Casting (Narrowing Conversion)
11         double doubleVal = 10.5;
12         float floatVal = (float) doubleVal;
13         long longVal = (long) floatVal;
14         int intVal = (int) longVal;
15         System.out.println("Explicit Casting: " + doubleVal + " -> " + floatVal + " ->
16     }
17 }
18

```

```

<terminated> TypeCastingDemo [Java Application] C:\Program Files\Java\jdk-17.0.5\bin\javaw.exe (08 May 2023, 9:51:21 am - 9:51:22 am) [pid: 1880]
Implicit Casting: 10 -> 10 -> 10.0 -> 10.0
Explicit Casting: 10.5 -> 10.5 -> 10 -> 10

```