PRIMITIVE DATATYPES TYPECASTING

Conversion of data from char-to-char datatype:

Program:

```
package practice;
public class Demo {
    public static void main(String []args){
        char a='z';
        char b;
        b=a;
        System.out.println("a:"+a);
        System.out.println("b:"+b);
    }
}
```

Output:

Conclusion:

char-to-char conversion is not required.

Conversion of data from char-to-byte datatype:

Program:

```
package practice;
public class Demo {
    public static void main(String []args){
        char a='z';
        byte b;
        b=(byte)a;
        System.out.println("a : "+a);
        System.out.println("b : "+b);
    }
}
```

Output:

Conclusion:

char-to-byte conversion is done through explicit type casting.

Conversion of data from char-to-short datatype:

Program:

```
package practice;
public class Demo {
    public static void main(String []args){
        char a='G';
        short b;
        b=(short)a;
        System.out.println("a:"+a);
        System.out.println("b:"+b);
    }
}
```

Output:

Conclusion:

char-to-short conversion is done through explicit type casting.

Conversion of data from char-to-int datatype:

Program:

```
package practice;
public class Demo {
    public static void main(String []args){
        char a='a';
        int b;
        b=a;
        System.out.println("a:"+a);
        System.out.println("b:"+b);
    }
}
```

Output:

Conclusion:

char-to-int conversion is done through implicit type casting.

Conversion of data from char-to-long datatype:

Program:

```
package practice;
public class Demo {
    public static void main(String []args){
        char a='b';
        long b;
        b=a;
        System.out.println("a:"+a);
        System.out.println("b:"+b);
    }
}
```

Output:

Conclusion:

char-to-long conversion is done through implicit type casting.

Conversion of data from char-to-float datatype:

Program:

```
package practice;
public class Demo {
    public static void main(String []args){
        char a='c';
        float b;
        b=a;
        System.out.println("a:"+a);
        System.out.println("b:"+b);
    }
}
```

Output:

Conclusion:

char-to-float conversion is done through implicit type casting.

Conversion of data from char-to-double datatype:

Program:

```
package practice;
public class Demo {
    public static void main(String []args){
        char a='d';
        double b;
        b=a;
        System.out.println("a:"+a);
        System.out.println("b:"+b);
    }
}
```

Output:

Conclusion:

char-to-double conversion is done through implicit type casting.

Conversion of data from char-to-boolean datatype:

```
Program://Implicit type casting
package practice;
public class Demo {
    public static void main(String []args){
        char a='d';
}
```

boolean b;

System.out.println("a: "+a);

System.out.println("b:"+b);

b=a;

}//Explicit type casting

```
package practice;
public class Demo {
    public static void main(String []args){
        char a='d';
        boolean b;
        b=(boolean)a;
        System.out.println("a:"+a);
        System.out.println("b:"+b);
    }
}
```

Conclusion:

Output:

char-to-boolean conversion is not possible.

Compilation error for type casting.

Conversion of data from byte-to-char datatype:

Program:

```
package practice;
public class Demo {
    public static void main(String []args){
        byte a=127;
        char b;
        b=(char)a;
        System.out.println("a:"+a);
        System.out.println("b:"+b);
    }
}
```

Output:

Conclusion:

byte-to-char conversion is done through explicit type casting.

Conversion of data from byte-to-byte datatype:

Program:

```
package practice;
public class Demo {
    public static void main(String []args){
        byte a=126;
        byte b;
        b=a;
        System.out.println("a:"+a);
        System.out.println("b:"+b);
    }
}
```

Output:

```
1 package practice;
2 public class Demo {
3  public static void main(String []args){
4  byte a=126;
5  byte b;
6  b=a;
7  System.out.println("a : "+a);
8  System.out.println("b : "+b);
9  }
10 }
11 |

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a : 126
b : 126
```

Conclusion:

byte-to-byte conversion is not required.

Conversion of data from byte-to-short datatype:

Program:

```
package practice;
public class Demo {
    public static void main(String []args){
        byte a=125;
        short b;
        b=a;
        System.out.println("a:"+a);
        System.out.println("b:"+b);
    }
}
```

Output:

```
1 package practice;
2 public class Demo {
3     public static void main(String []args){
4         byte a=125;
5         short b;
6         b=a;
7         System.out.println("a : "+a);
8         System.out.println("b : "+b);
9     }
10 }
11 |

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a : 125
b : 125
```

Conclusion:

byte-to-short conversion is done through implicit type casting.

Conversion of data from byte-to-int datatype:

Program:

```
package practice;
public class Demo {
    public static void main(String []args){
        byte a=124;
        int b;
        b=a;
        System.out.println("a : "+a);
        System.out.println("b : "+b);
    }
}
```

Output:

```
1 package practice;
2 public class Demo {
3     public static void main(String []args){
4         byte a=124;
5         int b;
6         b=a;
7         System.out.println("a : "+a);
8         System.out.println("b : "+b);
9     }
10 }
11 |

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Conclusion:

byte-to-int conversion is done through implicit type casting.

Conversion of data from byte-to-long datatype:

Program:

```
package practice;
public class Demo {
    public static void main(String []args) {
        byte a=123;
        long b;
        b=a;
        System.out.println("a:"+a);
        System.out.println("b:"+b);
    }
}
```

Output:

```
1 package practice;
2 public class Demo {
3  public static void main(String []args){
4  byte a=123;
5  long b;
6  b=a;
7  System.out.println("a : "+a);
8  System.out.println("b : "+b);
9  }
10 }
11 |

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    <a href="mailto:terminated">terminated</a> Demo [Java Application] C:\Users\chpra\.p2\pool\plugin
a : 123
b : 123
```

Conclusion:

byte-to-long conversion is done through implicit type casting.

Conversion of data from byte-to-float datatype:

Program:

```
package practice;
public class Demo {
    public static void main(String []args){
        byte a=-128;
        float b;
        b=a;
        System.out.println("a : "+a);
        System.out.println("b : "+b);
    }
}
```

Output:

Conclusion:

byte-to-float conversion is done through implicit type casting.

Conversion of data from byte-to-double datatype:

Program:

```
package practice;
public class Demo {
    public static void main(String []args){
        byte a=-120;
        double b;
        b=a;
        System.out.println("a:"+a);
        System.out.println("b:"+b);
    }
}
```

Output:

Conclusion:

byte-to-double conversion is done through implicit type casting.

Conversion of data from byte-to-boolean datatype:

```
Program://Implicit type casting
```

```
package practice;
public class Demo {
      public static void main(String []args){
            byte a=-120;
            boolean b;
            b=a;
            System.out.println("a: "+a);
            System.out.println("b:"+b);
}//Explicit type casting
package practice;
public class Demo {
      public static void main(String []args){
            byte a=-120;
            boolean b;
            b=(boolean)a;
            System.out.println("a: "+a);
            System.out.println("b : "+b);
Output:
      Compilation error for type casting.
```

Conclusion:

byte-to-boolean conversion is not possible.

Conversion of data from short-to-char datatype:

Program:

```
package practice;
public class Demo {
    public static void main(String []args){
        short a=2700;
        char b;
        b=(char)a;
        System.out.println("a:"+a);
        System.out.println("b:"+b);
    }
}
```

Output:

```
1 package practice;
2 public class Demo {
3  public static void main(String []args){
4  short a=2700;
5  char b;
6  b=(char)a;
7  System.out.println("a: "+a);
8  System.out.println("b: "+b);
9  }
10 }
11 |

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a: 2700
b: \times
```

Conclusion:

short-to-char conversion is done through explicit type casting.

Conversion of data from short-to-byte datatype:

Program:

```
package practice;
public class Demo {
    public static void main(String []args){
        short a=1950;
        byte b;
        b=(byte)a;
        System.out.println("a:"+a);
        System.out.println("b:"+b);
    }
}
```

Output:

Conclusion:

short-to-byte conversion is done through explicit type casting.

Conversion of data from short-to-short datatype:

Program:

```
package practice;
public class Demo {
    public static void main(String []args){
        short a=32000;
        short b;
        b=a;
        System.out.println("a:"+a);
        System.out.println("b:"+b);
    }
}
```

Output:

Conclusion:

short-to-short conversion is not required.

Conversion of data from short-to-int datatype:

Program:

```
package practice;
public class Demo {
    public static void main(String []args){
        short a=31235;
        int b;
        b=a;
        System.out.println("a:"+a);
        System.out.println("b:"+b);
    }
}
```

Output:

Conclusion:

short-to-int conversion is done through implicit type casting.

Conversion of data from short-to-long datatype:

Program:

```
package practice;
public class Demo {
    public static void main(String []args){
        short a=31012;
        long b;
        b=a;
        System.out.println("a : "+a);
        System.out.println("b : "+b);
    }
}
```

Output:

Conclusion:

short-to-long conversion is done through implicit type casting.

Conversion of data from short-to-float datatype:

Program:

```
package practice;
public class Demo {
    public static void main(String []args){
        short a=-32001;
        float b;
        b=a;
        System.out.println("a:"+a);
        System.out.println("b:"+b);
    }
}
```

Output:

Conclusion:

short-to-float conversion is done through implicit type casting.

Conversion of data from short-to-double datatype:

Program:

```
package practice;
public class Demo {
    public static void main(String []args){
        short a=-22601;
        double b;
        b=a;
        System.out.println("a:"+a);
        System.out.println("b:"+b);
    }
}
```

Output:

Conclusion:

short-to-double conversion is done through implicit type casting.

Conversion of data from short-to-boolean datatype:

```
Program://Implicit type casting
package practice;
public class Demo {
      public static void main(String []args){
            short a=3200;
            boolean b;
            b=a;
            System.out.println("a: "+a);
            System.out.println("b:"+b);
}//Explicit type casting
package practice;
public class Demo {
      public static void main(String []args){
            short a=3200;
            boolean b;
            b=(boolean)a;
            System.out.println("a: "+a);
            System.out.println("b : "+b);
Output:
      Compilation error for type casting.
```

Conclusion:

short-to-boolean conversion is not possible.

Conversion of data from int-to-char datatype:

Program:

```
package practice;
public class Demo {
    public static void main(String []args){
        int a=2000;
        char b;
        b=(char)a;
        System.out.println("a:"+a);
        System.out.println("b:"+b);
    }
}
```

Output:

Conclusion:

int-to-char conversion is done through explicit type casting.

Conversion of data from int-to-byte datatype:

Program:

```
package practice;
public class Demo {
    public static void main(String []args){
        int a=343001201;
        byte b;
        b=(byte)a;
        System.out.println("a:"+a);
        System.out.println("b:"+b);
    }
}
```

Output:

Conclusion:

int-to-byte conversion is done through explicit type casting.

Conversion of data from int-to-short datatype:

Program:

```
package practice;
public class Demo {
    public static void main(String []args){
        int a=3430012;
        short b;
        b=(short)a;
        System.out.println("a:"+a);
        System.out.println("b:"+b);
    }
}
```

Output:

Conclusion:

int-to-short conversion is done through explicit type casting.

Conversion of data from int-to-int datatype:

Program:

```
package practice;
public class Demo {
    public static void main(String []args){
        int a=393192431;
        int b;
        b=a;
        System.out.println("a:"+a);
        System.out.println("b:"+b);
    }
}
```

Output:

Conclusion:

int-to-int conversion is not required.

Conversion of data from int-to-long datatype:

Program:

```
package practice;
public class Demo {
    public static void main(String []args) {
        int a=276665957;
        long b;
        b=a;
        System.out.println("a:"+a);
        System.out.println("b:"+b);
    }
}
```

Output:

Conclusion:

int-to-long conversion is done through implicit type casting.

Conversion of data from int-to-float datatype:

Program:

```
package practice;
public class Demo {
    public static void main(String []args){
        int a=-279865957;
        float b;
        b=a;
        System.out.println("a:"+a);
        System.out.println("b:"+b);
    }
}
```

Output:

Conclusion:

int-to-float conversion is done through implicit type casting.

Conversion of data from int-to-double datatype:

Program:

```
package practice;
public class Demo {
    public static void main(String []args){
        int a=-1798657;
        double b;
        b=a;
        System.out.println("a:"+a);
        System.out.println("b:"+b);
    }
}
```

Output:

Conclusion:

int-to-double conversion is done through implicit type casting.

Conversion of data from int-to-boolean datatype:

```
Program://Implicit type casting
package practice;
public class Demo {
      public static void main(String []args){
            int a=1798657;
            boolean b;
            b=a;
            System.out.println("a: "+a);
            System.out.println("b:"+b);
}//Explicit type casting
package practice;
public class Demo {
      public static void main(String []args){
            int a=1798657;
            boolean b;
            b=(boolean)a;
            System.out.println("a: "+a);
            System.out.println("b:"+b);
Output:
      Compilation error for type casting.
Conclusion:
```

int-to-boolean conversion is not possible.

Conversion of data from long-to-char datatype:

Program:

```
package practice;
public class Demo {
     public static void main(String []args){
            long a=70009987435741;
            char b;
            b=(char)a;
            System.out.println("a:"+a);
            System.out.println("b:"+b);
Output:
                         practice;
                 public class Demo {
                     public static void main(String []args){
                          long a=70009987435741;
                          char b;
                          b=(char)a;
                          System.out.println("a : "+a);
                         System.out.println("b : "+b);
```

Conclusion:

long-to-char conversion is done through explicit type casting.

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Conversion of data from long-to-byte datatype:

Program:

```
package practice;
public class Demo {
      public static void main(String []args){
            long a=712324541;
            byte b;
            b=(byte)a;
            System.out.println("a:"+a);
            System.out.println("b:"+b);
      }
Output:
                   package practice;
                       public static void main(String []args){
                            long a=712324541;
                            byte b;
                            b=(byte)a;
                            System.out.println("a : "+a);
                            System.out.println("b : "+b);
              🔣 Markers 🔳 Properties 🤲 Servers 🗯 Data Source Explorer 🚦
              terminated > Demo [Java Application] C:\Users\chpra\.p2\pool\pl
```

Conclusion:

long-to-byte conversion is done through explicit type casting.

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Conversion of data from long-to-short datatype:

Program:

```
package practice;
public class Demo {
      public static void main(String []args){
            long a=-8712324541;
            short b;
            b=(short)a;
            System.out.println("a:"+a);
            System.out.println("b:"+b);
      }
Output:
                           practice;
                2 public class Demo {
                       public static void main(String []args){
                           long a=-8712324541;
                           short b;
                           b=(short)a;
                           System.out.println("a : "+a);
                           System.out.println("b : "+b);
```

Conclusion:

long-to-short conversion is done through explicit type casting.

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Conversion of data from long-to-int datatype:

```
Program:
```

```
package practice;
public class Demo {
      public static void main(String []args){
            long a=128712324541;
            int b;
            b=(int)a;
            System.out.println("a:"+a);
            System.out.println("b:"+b);
Output:
                            practice;
                 2 public class Demo {
                        public static void main(String []args){
                            long a=128712324541;
                            int b;
                            b=(int)a;
                            System.out.println("a : "+a);
                            System.out.println("b : "+b);
                11
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               <terminated> Demo [Java Application] C:\Users\chpra\.p2\pool\plu
                 : 12871232454
                   -13669434
```

Conclusion:

long-to-int conversion is done through explicit type casting.

Conversion of data from long-to-long datatype:

Program:

```
package practice;
public class Demo {
      public static void main(String []args){
            long a=78128712324541;
            long b;
            b=a;
            System.out.println("a:"+a);
            System.out.println("b:"+b);
Output:
                   package practice;
```

```
2 public class Demo {
         public static void main(String []args){
             long a=78128712324541;
             long b;
             System.out.println("a : "+a);
             System.out.println("b : "+b);
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<terminated> Demo [Java Application] C:\Users\chpra\.p2\pool\plu
 : 7812871232454
 : 7812871232454
```

Conclusion:

long-to-long conversion is not required.

Conversion of data from long-to-float datatype:

Program:

```
package practice;
public class Demo {
    public static void main(String []args) {
        long a=27812871232454l;
        float b;
        b=a;
        System.out.println("a:"+a);
        System.out.println("b:"+b);
    }
}
```

Output:

Conclusion:

long-to-float conversion is done through implicit type casting.

Conversion of data from long-to-double datatype:

Program:

```
package practice;
public class Demo {
      public static void main(String []args){
            long a=512781287123241;
            double b;
            b=a;
            System.out.println("a:"+a);
            System.out.println("b:"+b);
```

Output:

```
package practice;
          public static void main(String []args){
   long a=512781287123241;
               double b;
               System.out.println("a : "+a);
               System.out.println("b : "+b);
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terminated > Demo [Java Application] C:\Users\chpra\.p2\pool\plu
 : 51278128712324
b: 5.1278128712324E13
```

Conclusion:

long-to-double conversion is done through implicit type casting.

Conversion of data from long-to-boolean datatype:

```
Program://Implicit type casting
package practice;
public class Demo {
      public static void main(String []args){
            long a=7512781287123241;
            boolean b;
            b=a;
            System.out.println("a:"+a);
            System.out.println("b:"+b);
}//Explicit type casting
package practice;
public class Demo {
      public static void main(String []args){
            long a=7512781287123241;
            boolean b;
            b=(boolean)a;
            System.out.println("a: "+a);
            System.out.println("b:"+b);
Output:
      Compilation error for type casting.
```

Conclusion:

int-to-boolean conversion is not possible.

Conversion of data from float-to-char datatype:

Program:

```
package practice;
public class Demo {
    public static void main(String []args){
        float a=75127812f;
        char b;
        b=(char)a;
        System.out.println("a:"+a);
        System.out.println("b:"+b);
    }
}
```

Output:

Conclusion:

float-to-char conversion is done through explicit type casting.

Conversion of data from float-to-byte datatype:

Program:

```
package practice;
public class Demo {
    public static void main(String []args){
        float a=10865127812f;
        byte b;
        b=(byte)a;
        System.out.println("a:"+a);
        System.out.println("b:"+b);
    }
}
```

Output:

Conclusion:

float-to-byte conversion is done through explicit type casting.

Conversion of data from float-to-short datatype:

Program:

```
package practice;
public class Demo {
    public static void main(String []args) {
        float a=-965127812f;
        short b;
        b=(short)a;
        System.out.println("a:"+a);
        System.out.println("b:"+b);
    }
}
```

Output:

Conclusion:

float-to-short conversion is done through explicit type casting.

Conversion of data from float-to-int datatype:

Program:

```
package practice;
public class Demo {
    public static void main(String []args){
        float a=-10965127812f;
        int b;
        b=(int)a;
        System.out.println("a:"+a);
        System.out.println("b:"+b);
    }
}
```

Output:

Conclusion:

float-to-int conversion is done through explicit type casting.

Conversion of data from float-to-long datatype:

Program:

```
package practice;
public class Demo {
      public static void main(String []args){
            float a=9010965127812f;
            long b;
            b=(long)a;
            System.out.println("a:"+a);
            System.out.println("b:"+b);
      }
```

Output:

```
package practice;
  2 public class Demo {
         public static void main(String []args){
             float a=9010965127812f;
             b=(long)a;
             System.out.println("a : "+a);
             System.out.println("b : "+b);
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<terminated > Demo [Java Application] C:\Users\chpra\.p2\pool\pl
 : 9.0109651E12
 : 9010965118976
```

Conclusion:

float-to-long conversion is done through explicit type casting.

Conversion of data from float-to-float datatype:

Program:

```
package practice;
public class Demo {
    public static void main(String []args){
        float a=89010965127812f;
        float b;
        b=a;
        System.out.println("a:"+a);
        System.out.println("b:"+b);
    }
}
```

Output:

Conclusion:

float-to-float conversion is not required.

Conversion of data from float-to-double datatype:

Program:

```
package practice;
public class Demo {
    public static void main(String []args){
        float a=2189010965127812f;
        double b;
        b=a;
        System.out.println("a:"+a);
        System.out.println("b:"+b);
    }
}
```

Output:

Conclusion:

float-to-double conversion is done through implicit type casting.

Conversion of data from float-to-boolean datatype:

```
Program://Implicit type casting
package practice;
public class Demo {
      public static void main(String []args){
            float a=10965127812f;
            boolean b;
            b=a;
            System.out.println("a:"+a);
            System.out.println("b:"+b);
}//Explicit type casting
package practice;
public class Demo {
      public static void main(String []args){
            float a=10965127812f;
            boolean b;
            b=(boolean)a;
            System.out.println("a: "+a);
            System.out.println("b:"+b);
Output:
      Compilation error for type casting.
```

Conclusion:

float-to-boolean conversion is not possible.

Conversion of data from double-to-char datatype:

Program:

```
package practice;
public class Demo {
    public static void main(String []args){
        double a=1296512782;
        char b;
        b=(char)a;
        System.out.println("a:"+a);
        System.out.println("b:"+b);
    }
}
```

Output:

Conclusion:

double-to-char conversion is done through explicit type casting.

Conversion of data from double-to-byte datatype:

Program:

```
package practice;
public class Demo {
    public static void main(String []args){
        double a=53.769526555953525;
        byte b;
        b=(byte)a;
        System.out.println("a:"+a);
        System.out.println("b:"+b);
    }
}
```

Output:

Conclusion:

double-to-byte conversion is done through explicit type casting.

Conversion of data from double-to-short datatype:

Program:

```
package practice;
public class Demo {
      public static void main(String []args){
            double a=-654.769512655593;
            short b;
            b=(short)a;
            System.out.println("a:"+a);
            System.out.println("b:"+b);
      }
```

Output:

```
package practice;
  2 public class Demo {
         public static void main(String []args){
             double a=-654.769512655593;
             short b;
             b=(short)a;
             System.out.println("a : "+a);
             System.out.println("b : "+b);
ิ Markers 🔳 Properties 🚜 Servers 💥 Data Source Explorer 🛭 Si
<terminated > Demo [Java Application] C:\Users\chpra\.p2\pool\plug
   -654.769512655593
 : -654
```

Conclusion:

double-to-short conversion is done through explicit type casting.

Conversion of data from double-to-int datatype:

Program:

```
package practice;
public class Demo {
    public static void main(String []args){
        double a=1769.088765547;
        int b;
        b=(int)a;
        System.out.println("a:"+a);
        System.out.println("b:"+b);
    }
}
```

Output:

Conclusion:

double-to-int conversion is done through explicit type casting.

Conversion of data from double-to-long datatype:

Program:

```
package practice;
public class Demo {
    public static void main(String []args){
        double a=7169.7588765547;
        long b;
        b=(long)a;
        System.out.println("a:"+a);
        System.out.println("b:"+b);
    }
}
```

Output:

Conclusion:

double-to-long conversion is done through explicit type casting.

Conversion of data from double-to-float datatype:

Program:

```
package practice;
public class Demo {
      public static void main(String []args){
             double a=91169.7588765547;
             float b;
             b=(float)a;
             System.out.println("a:"+a);
             System.out.println("b:"+b);
      }
Output:
                   package practice;
                       public static void main(String []args){
                           double a=91169.7588765547;
                            float b;
                           b=(float)a;
                           System.out.println("a : "+a);
                           System.out.println("b : "+b);
               🖁 Markers 🔳 Properties 🚜 Servers 🗯 Data Source Explorer 📔 Snippe
```

Conclusion:

double-to-float conversion is done through explicit type casting.

a : 91169.7588765547

b: 91169.76

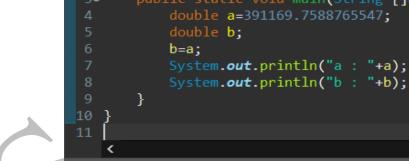
<terminated> Demo [Java Application] C:\Users\chpra\.p2\pool\plugins\o

Conversion of data from double-to-double datatype:

Program:

```
package practice;
public class Demo {
    public static void main(String []args) {
        double a=391169.7588765547;
        double b;
        b=a;
        System.out.println("a:"+a);
        System.out.println("b:"+b);
    }
}
Output:

1 package practice;
2 public class Demo {
3 public static void main(String []args) {
4 double a=391169.7588765547;
5 double b;
```



Conclusion:

double-to-double conversion is not required.

Conversion of data from double-to-boolean datatype:

```
Program://Implicit type casting
package practice;
public class Demo {
      public static void main(String []args){
            double a=1096512782;
            boolean b;
            b=a;
            System.out.println("a:"+a);
            System.out.println("b:"+b);
}//Explicit type casting
package practice;
public class Demo {
      public static void main(String []args){
            double a=1096512782;
            boolean b;
            b=(boolean)a;
            System.out.println("a: "+a);
            System.out.println("b:"+b);
Output:
      Compilation error for type casting.
Conclusion:
```

double-to-boolean conversion is not possible.

Conversion of data from boolean-to-char datatype:

Program:

```
package practice;
public class Demo {
    public static void main(String []args) {
        boolean a=true;
        char b;
        b=a;
        // explicit type casting
        b=(char)a;
        System.out.println("a:"+a);
        System.out.println("b:"+b);
    }
}
```

Output:

Compilation error for type casting.

Conclusion:

boolean-to-char conversion is not possible.

Conversion of data from boolean-to-byte datatype:

Program:

```
package practice;
public class Demo {
      public static void main(String []args){
            boolean a=true;
            byte b;
            b=a;
            // explicit type casting
            b=(byte)a;
            System.out.println("a: "+a);
            System.out.println("b:"+b);
      }
Output:
```

Compilation error for type casting.

Conclusion:

boolean-to-byte conversion is not possible.

Conversion of data from boolean-to-short datatype:

Program:

```
package practice;
public class Demo {
      public static void main(String []args){
            boolean a=true;
            short b;
            b=a;
            // explicit type casting
            b=(short)a;
            System.out.println("a: "+a);
            System.out.println("b:"+b);
      }
Output:
```

Compilation error for type casting.

Conclusion:

boolean-to-short conversion is not possible.

Conversion of data from boolean-to-int datatype:

Program:

```
package practice;
public class Demo {
    public static void main(String []args){
        boolean a=true;
        int b;
        b=a;
        // explicit type casting
        b=(int)a;
        System.out.println("a:"+a);
        System.out.println("b:"+b);
    }
}
```

Output:

Compilation error for type casting.

Conclusion:

boolean-to-int conversion is not possible.

Conversion of data from boolean-to-long datatype:

Program:

```
package practice;
public class Demo {
      public static void main(String []args){
            boolean a=true;
            long b;
            b=a;
            // explicit type casting
            b=(long)a;
            System.out.println("a: "+a);
            System.out.println("b:"+b);
      }
Output:
```

Compilation error for type casting.

Conclusion:

boolean-to-long conversion is not possible.

Conversion of data from boolean-to-float datatype:

Program:

```
package practice;
public class Demo {
      public static void main(String []args){
            boolean a=true;
            float b;
            b=a;
            // explicit type casting
            b=(float)a;
            System.out.println("a: "+a);
            System.out.println("b:"+b);
      }
Output:
```

Compilation error for type casting.

Conclusion:

boolean-to-float conversion is not possible.

Conversion of data from boolean-to-double datatype:

Program:

```
package practice;
public class Demo {
    public static void main(String []args){
        boolean a=true;
        double b;
        b=a;
        // explicit type casting
        b=(double)a;
        System.out.println("a : "+a);
        System.out.println("b : "+b);
    }
}
```

Output:

Compilation error for type casting.

Conclusion:

boolean-to-double conversion is not possible.

Conversion of data from boolean-to-boolean datatype:

Program:

```
package practice;
public class Demo {
    public static void main(String []args) {
        boolean a=true;
        boolean b;
        b=a;
        System.out.println("a:"+a);
        System.out.println("b:"+b);
    }
}
```

Output:

Conclusion:

boolean-to-boolean conversion is not required.

char→byte→short→int→long→float→double→boolean
------implicit conversion
boolean→double→float→long→int→short→byte→char
-----explicit conversion

	char	byte	short	Int	long	Float	double	boolean
char	CNR	✓	√	√	√	1		×
		Explicit	Explicit	Implicit	Implicit	Implicit	Implicit	Not possible
byte	✓	CNR	✓	✓	0 1	(1)	/	×
	Explicit		Implicit	Implicit	Implicit	Implicit	Implicit	Not possible
short	✓	✓	CNR	V	$\langle \langle \rangle \rangle$	✓	√	×
	Explicit	Explicit		Implicit	Implicit	Implicit	Implicit	Not possible
int	√	√	1	CNR	/	√	√	×
	Explicit	Explicit	Explicit		Implicit	Implicit	Implicit	Not possible
long	✓	1		✓	CNR	√	✓	×
	Explicit	Explicit	Explicit	Explicit		Implicit	Implicit	Not possible
float	1		√	√	√	CNR	√	×
	Explicit	Explicit	Explicit	Explicit	Explicit		Implicit	Not possible
double		✓	✓	✓	✓	✓	CNR	
	Explicit	Explicit	Explicit	Explicit	Explicit	Explicit		Not possible
boolean	×	×	×	×	×	×	×	CNR
	Not	Not	Not	Not	Not	Not	Not	
	possible	possible	possible	possible	possible	possible	possible	

CNR: Conversion not required