TYPE CASTING IN JAVA

```
package com.assignment;
public class DataTypes {
     public static void main(String[] args) {
          char a='1';
          char b;
         b=a;
          System.out.println(b);
     }
🦹 Markers 🔳 Properties 🚜 Servers 腱 Data Source Explorer 📔 Snippets 🧢 Terminal 📮 Console 🗶
<terminated> DataTypes [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 6:26:59 pm - 6:26:59 pm
Conclusion: Conversion of data is not required.
package com.assignment;
public class DataTypes {
     public static void main(String[] args) {
          char a='c';
         byte b;
         b=(byte)a;
          System.out.println(b);
     }
}
📳 Markers 🔳 Properties 🚜 Servers 🐞 Data Source Explorer 🔓 Snippets 🧢 Terminal 📮 Console 🔀
:terminated> DataTypes [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 2:34:10 pm -
```

Conclusion: Conversion of data from Char data type to byte datatype is possible but Explicit type conversion is required.

```
package com.assignment;

public class DataTypes {
    public static void main(String[] args) {
        char a='c';
        short b;
        b=[short)a;
        System.out.println(b);
    }
}
```

```
Markers ☐ Properties ♣ Servers ☐ Data Source Explorer ☐ Snippets 戶 Terminal ☐ Console × <terminated> DataTypes [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 2:46:31 pm – 2:46:99
```

Conclusion: Conversion of data from Char data type to short datatype is possible but Explicit type conversion is required.

```
package com.assignment;

public class DataTypes {
    public static void main(String[] args) {
        char a='c';
        int b;
        b=a;
        System.out.println(b);
    }
}
```

```
Markers ☐ Properties ♣ Servers ☐ Data Source Explorer ☐ Snippets ♣ Terminal ☐ Console ×

<terminated> DataTypes [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 2:47:56 pm – 2:47:56 pm) [
```

Conclusion: Conversion of data from Char data type to int datatype is possible Implicitly.

```
package com.assignment;

public class DataTypes {
    public static void main(String[] args) {
        char a='l';
        long b;
        b=a;
        System.out.println(b);
    }
}
```

```
Markers Properties Servers Data Source Explorer Snippets Properties Console ×

<terminated Data Types [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 2:50:03 pm – 2:50:03 pm) [pid: 696]
```

Conclusion: Conversion of data from Char data type to long datatype is possible Implicitly.

```
package com.assignment;
public class DataTypes {
     public static void main(String[] args) {
          char a='1';
          float b;
          b=a;
          System.out.println(b);
     }
}
🦹 Markers 🔳 Properties 🚜 Servers 腱 Data Source Explorer 📔 Snippets 🧢 Terminal 📮 Console 🗶
<terminated> DataTypes [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 2:54:30 pm - 2:54:31 pm) [pid:
49.0
Conclusion: Conversion of data from Char data type to float datatype is possible Implicitly.
 package com.assignment;
 public class DataTypes {
      public static void main(String[] args) {
           char a='1';
           double b;
           b=a;
           System.out.println(b);
      }
 }
📳 Markers 📋 Properties 🚜 Servers 💥 Data Source Explorer 🔓 Snippets 🧢 Terminal 📮 Console 🔀
<terminated> DataTypes [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 3:00:30 pm – 3:00:31 pm) [pid: 14644]
49.0
Conclusion: Conversion of data from Char data type to double datatype is possible Implicitly.
package com.assignment;
public class DataTypes {
     public static void main(String[] args) {
          char a='1';
          boolean b;
          b=a;
```

System.out.println(b);

}

}

Conclusion: Conversion of data from Char data type to boolean datatype is not possible

```
package com.assignment;

public class DataTypes {
    public static void main(String[] args) {
        byte a=70;
        char b;
        b=(char)a;
        System.out.println(b);
    }
}
```

```
Markers Properties & Servers Data Source Explorer Snippets Properties Console X

Sterminated Data Types [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 3:10:03 pm – 3:10:04 pm) [pid: 15372]
```

Conclusion: Conversion of data from byte data type to char datatype is possible but Explicit type conversion is required.

```
package com.assignment;

public class DataTypes {
    public static void main(String[] args) {
        byte a=12;
        byte b;
        b=a;
        System.out.println(b);
    }
}
```

```
Markers ☐ Properties ♣ Servers ☐ Data Source Explorer ☐ Snippets ♣ Terminal ☐ Console × <terminated> DataTypes [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 6:28:37 pm – 6:28:38 pm) [pid: 1
```

Conclusion: Conversion of data is not required.

```
package com.assignment;

public class DataTypes {
    public static void main(String[] args) {
        byte a=70;
        short b;
        b=a;
        System.out.println(b);
    }
}
```

Markers Properties & Servers Application Data Source Explorer Snippets Properties Console X

Sterminated DataTypes [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 3:12:35 pm – 3:12:36 pm) [170]

Conclusion: Conversion of data from byte data type to short datatype is possible Implicitly.

```
package com.assignment;

public class DataTypes {
    public static void main(String[] args) {
        byte a=70;
        int b;
        b=a;
        System.out.println(b);
    }
}
```

Markers Properties & Servers Application Data Source Explorer Snippets Properties Console X terminated> DataTypes [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 3:18:55 pm – 3:18:55 pm) [pid: 124-70]

Conclusion: Conversion of data from byte data type to int datatype is possible Implicitly.

```
package com.assignment;

public class DataTypes {
    public static void main(String[] args) {
        byte a=70;
        long b;
        b=a;
        System.out.println(b);
    }
}
```

```
Markers ☐ Properties ♣ Servers ☐ Data Source Explorer ☐ Snippets 戶 Terminal ☐ Console × <terminated > DataTypes [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 3:21:38 pm – 3:21:39 pm) [pid: 14
```

Conclusion: Conversion of data from byte data type to long datatype is possible Implicitly.

```
package com.assignment;

public class DataTypes {
    public static void main(String[] args) {
        byte a=70;
        float b;
        b=a;
        System.out.println(b);
    }
}
```

```
Markers Properties Servers Data Source Explorer Snippets Properties Console X Servers Data Special Data Source Explorer Snippets Properties Console X Servers Data Types [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 3:25:46 pm – 3:25:46 pm) [pid: 12120] 70.0
```

Conclusion: Conversion of data from byte data type to float datatype is possible Implicitly.

```
package com.assignment;

public class DataTypes {
    public static void main(String[] args) {
        byte a=70;
        double b;
        b=a;
        System.out.println(b);
    }
}
```

```
Markers Properties & Servers Data Source Explorer Snippets Properties Console X

Sterminated Data Types [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 3:30:56 pm – 3:30:57 pm) [
```

Conclusion: Conversion of data from byte data type to double datatype is possible Implicitly.

```
public class DataTypes {

public static void main(String[] args) {

byte a=18;

boolean b;

b=a;

System.out.println(b);
}

Markers Properties & Servers DataSource Explorer Snippets Terminal Console ×

<terminated DataTypes [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 4:43:54 pm - 4:43:54

Exception in thread "main" java.lang.Error: Unresolved compilation problem:

Type mismatch: cannot convert from byte to boolean

at com.assignment/com.assignment.DataTypes.main(DataTypes.java:7)
```

Conclusion: Conversion of data from byte data type to boolean datatype is not possible.

```
package com.assignment;

public class DataTypes {
    public static void main(String[] args) {
        short a=90;
        char b;
        b=(char) a;
        System.out.println(b);
    }
}
Markers Properties  Servers Data Source Explorer Snippets  Terminal Console ×
```

Markers ☐ Properties ♣ Servers ♣ Data Source Explorer ☐ Snippets ♣ Terminal ☐ Console ×

<terminated> DataTypes [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 3:33:26 pm – 3:33:26 pm) [pid: 1]

Conclusion: Conversion of data from short data type to char datatype is possible but Explicit type conversion is required.

```
Veerendra
                                                                                          June 20, 2023
package com.assignment;
public class DataTypes {
     public static void main(String[] args) {
          short a=90;
          byte b;
          b=(byte) a;
          System.out.println(b);
 }
🦹 Markers 🔳 Properties 🚜 Servers 腱 Data Source Explorer 🔓 Snippets 🧢 Terminal 📮 Console 🗶
<terminated> DataTypes [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 3:41:48 pm - 3:41:48 pm) [p
90
Conclusion: Conversion of data from short data type to byte datatype is possible but Explicit type conversion is
required.
package com.assignment;
```

```
package com.assignment;

public class DataTypes {
    public static void main(String[] args) {
        short a=12;
        short b;
        b=a;
        System.out.println(b);
    }
}
```

Markers Terminal Console X Servers Markers Terminal Console X Sterminated Data Types [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 6:29:54 pm – 6:29:54 pm) [pid: 12

Conclusion: Conversion of data is not required.

```
package com.assignment;

public class DataTypes {
    public static void main(String[] args) {
        short a=90;
        int b;
        b= a;
        System.out.println(b);
    }
}
```

```
Markers Properties & Servers Data Source Explorer Snippets Properties Console X<br/>
<terminated> DataTypes [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 3:43:27 pm – 3:43:27 pm) [pid: 11 90
```

Conclusion: Conversion of data from short data type to int datatype is possible Implicitly.

```
package com.assignment;

public class DataTypes {
    public static void main(String[] args) {
        short a=90;
        long b;
        b= a;
        System.out.println(b);
    }
}
```

```
Markers Properties & Servers Application C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 3:45:14 pm – 3:45:14 pm) [pid: 284]
```

Conclusion: Conversion of data from short data type to long datatype is possible Implicitly.

```
package com.assignment;

public class DataTypes {
    public static void main(String[] args) {
        short a=90;
        float b;
        b= a;
        System.out.println(b);
    }
}
```

```
Markers Properties & Servers Data Source Explorer Snippets Prominal Console X (Markers DataTypes [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 3:47:52 pm – 3:4 90.0
```

Conclusion: Conversion of data from short data type to float datatype is possible Implicitly.

```
package com.assignment;
 public class DataTypes {
     public static void main(String[] args) {
          short a=90;
          double b;
          b=a;
          System.out.println(b);
      }
 }
📳 Markers 🔳 Properties 🚜 Servers 🐞 Data Source Explorer 🔓 Snippets 🧢 Terminal 📮 Console 🔀
<terminated> DataTypes [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 3:47:52 pm – 3:47:53 pm) [
90.0
Conclusion: Conversion of data from short data type to double datatype is possible Implicitly.
package com.assignment;
public class DataTypes {
     public static void main(String[] args) {
         short a=18;
         boolean b;
         b=a;
         System.out.println(b);
     }
}
 📳 Markers 🔳 Properties 🚜 Servers 🛗 Data Source Explorer 📔 Snippets 🧢 Terminal 🖃 Console 🔀
<terminated> DataTypes [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 4:44:55 pm – 4:44:55 pm
Exception in thread "main" java.lang.Error: Unresolved compilation problem:
         Type mismatch: cannot convert from short to boolean
          at com.assignment/com.assignment.DataTypes.main(DataTypes.java:7)
Conclusion: Conversion of data from short data type to boolean datatype is not possible.
  package com.assignment;
  public class DataTypes {
       public static void main(String[] args) {
             int a=129;
            char b;
            b= (char) a;
            System.out.println(b);
       1
```

```
Markers Properties & Servers Data Source Explorer Snippets Properties Console X <a href="terminated">terminated</a> Data Types [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 3:50:09 pm – 3:50:09 pm) [pid: 88-2]?
```

Conclusion: Conversion of data from int data type to char datatype is possible but Explicit type conversion is required.

Conclusion: Conversion of data from int data type to byte datatype is possible but Explicit type conversion is required.

-126

```
public class DataTypes { 
public static void main(String[] args) { 
   int a=300; 
   short b; 
   b= (short) a; 
   System.out.println(b); 
} 
}

Markers Properties Servers Data Source Explorer Snippets Preminal Console × 
<terminated DataTypes [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 3:58:30 pm - 3:58:30 pm) [pid: 9304]
300
```

Conclusion: Conversion of data from int data type to short datatype is possible but Explicit type conversion is required.

Veerendra June 20, 2023 package com.assignment; public class DataTypes { public static void main(String[] args) { int a=12; int b; b=a;System.out.println(b); } } 📳 Markers 🔳 Properties 🚜 Servers 🐞 Data Source Explorer 📔 Snippets 🧢 Terminal 📮 Console 🗶 terminated > DataTypes [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 6:29:54 pm - 6:29:54 pm) [pid 12 Conclusion: Conversion of data is not required. package com.assignment; public class DataTypes { public static void main(String[] args) { int a=300; long b; b=a;System.out.println(b); } 📳 Markers 📋 Properties 🚜 Servers ╟ Data Source Explorer 🔓 Snippets 🧢 Terminal 📮 Console 🔀 <terminated> DataTypes [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 3:59:53 pm - 3:59:53 pm) [p 300 Conclusion: Conversion of data from int data type to long datatype is possible Implicitly. package com.assignment; public class DataTypes { public static void main(String[] args) { int a=300; float b; b=a; System.out.println(b); } }

```
Markers Properties Servers Data Source Explorer Snippets Properties Console X <a href="mailto:character">terminated > Data Types [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe">java\jdk-19\bin\javaw.exe</a> (20-Jun-2023, 4:01:00 pm – 4:01:0300.0
```

Conclusion: Conversion of data from int data type to float datatype is possible Implicitly.

```
package com.assignment;

public class DataTypes {
    public static void main(String[] args) {
        int a=300;
        double b;
        b=a;
        System.out.println(b);
    }
}
```

```
Markers Properties Servers Data Source Explorer Snippets Preminal Console X cterminated Data Types [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 4:02:14 pm – 4:02:14 pm) [pid: 300.0]
```

Conclusion: Conversion of data from int data type to double datatype is possible Implicitly.

```
package com.assignment;

public class DataTypes {
    public static void main(String[] args) {
        int | a=18;
        boolean b;
        b=a;
        System.out.println(b);
    }
}
```

```
Markers ☐ Properties ♣ Servers ☐ Data Source Explorer ☐ Snippets ♣ Terminal ☐ Console ×

<terminated> DataTypes [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 4:46:16 pm - 4:46:17)

Exception in thread "main" java.lang.Error: Unresolved compilation problem:

Type mismatch: cannot convert from int to boolean

at com.assignment/com.assignment.DataTypes.main(DataTypes.java:7)
```

Conclusion: Conversion of data from int data type to boolean datatype is not possible

```
public class DataTypes { 
    public static void main(String[] args) { 
        long a=1001; 
        char b; 
        b=(char) a; 
        System.out.println(b); 
    } 
}

Markers Properties & Servers Data Source Explorer Snippets Terminal Console × 
<terminated> DataTypes [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 4:04:10 pm - 4:04:10 pm) [pid: d]
```

Conclusion: Conversion of data from long data type to char datatype is possible but Explicit type conversion is required.

```
package com.assignment;

public class DataTypes {
    public static void main(String[] args) {
        long a=1001;
        byte b;
        b=(byte) a;
        System.out.println(b);
    }
}
```

Markers Properties & Servers Data Source Explorer Snippets Properties Console X

<terminated> DataTypes [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 4:05:30 pm – 4:05:31 pm 100

Conclusion: Conversion of data from long data type to byte datatype is possible but Explicit type conversion is required.

```
package com.assignment;

public class DataTypes {
    public static void main(String[] args) {
        long a=1001;
        short b;
        b= (short) a;
        System.out.println(b);
    }
}
```

Conclusion: Conversion of data from long data type to short datatype is possible but Explicit type conversion is required.

```
package com.assignment;

public class DataTypes {
    public static void main(String[] args) {
        long a=1001;
        int b;
        b= (int) a;
        System.out.println(b);
    }
}
```

```
Markers Properties & Servers Data Source Explorer Snippets Properties Console X

Sterminated Data Types [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 4:08:01 pm – 4:08:01 pm)
```

Conclusion: Conversion of data from long data type to int datatype is possible but Explicit type conversion is required.

```
package com.assignment;
public class DataTypes {
     public static void main(String[] args) {
          long a=121;
          long b;
          b=a;
          System.out.println(b);
     }
}
🦹 Markers 🔳 Properties 🚜 Servers 腱 Data Source Explorer 🔓 Snippets 🧢 Terminal 📮 Console 🗶
<terminated> DataTypes [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 6:34:23 pm - 6:34:23 pm) [pin
Conclusion: Conversion of data is not required.
package com.assignment;
public class DataTypes {
    public static void main(String[] args) {
         long a=1001;
         float b;
         b=a;
         System.out.println(b);
}
🖹 Markers 🔳 Properties 🚜 Servers 🐞 Data Source Explorer 📔 Snippets 🥒 Terminal 📮 Console 🔀
(terminated> DataTypes [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 4:09:32 pm – 4:09:32 pm) [
100.0
Conclusion: Conversion of data from long data type to float datatype is possible Implicitly.
package com.assignment;
public class DataTypes {
     public static void main(String[] args) {
          long a=1001;
          double b;
          b=a;
          System.out.println(b);
      }
 }
```

```
Markers Properties Servers Data Source Explorer Snippets Prominal Console X cterminated Data Types [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 4:10:45 pm – 4:10:46 pm) [pin 100.0]
```

Conclusion: Conversion of data from long data type to double datatype is possible Implicitly.

```
package com.assignment;

public class DataTypes {
    public static void main(String[] args) {
        long a=181;
        boolean b;
        b=a;
        System.out.println(b);
    }
}
```

```
Markers Properties Servers Data Source Explorer Snippets Terminal Console X

<terminated Data Types [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 4:47:47 pm - 4:47

Exception in thread "main" java.lang.Error: Unresolved compilation problem:

Type mismatch: cannot convert from long to boolean

at com.assignment/com.assignment.DataTypes.main(DataTypes.java:7)
```

Conclusion: Conversion of data from long data type to boolean datatype is not possible

```
package com.assignment;

public class DataTypes {
    public static void main(String[] args) {
        float a=91.098f;
        char b;
        b=(char) a;
        System.out.println(b);
    }
}
```

```
Markers Properties Servers Data Source Explorer Snippets Properties Console X<br/>
<terminated> DataTypes [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 4:14:53 pm – 4:14:54 pm) [pid: 2]
```

Conclusion: Conversion of data from float data type to char datatype is possible but Explicit type conversion is required

```
package com.assignment;
public class DataTypes {
     public static void main(String[] args) {
          float a=91.098f;
          byte b;
          b=(byte) a;
          System.out.println(b);
     }
}
📳 Markers 📋 Properties 🚜 Servers 🐞 Data Source Explorer 📔 Snippets 🧢 Terminal 📮 Console 🗙
<terminated> DataTypes [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 4:16:29 pm - 4:16:29 pm) [pid: 1476]
91
Conclusion: Conversion of data from float data type to byte datatype is possible but Explicit type conversion is
```

required

```
package com.assignment;
public class DataTypes {
    public static void main(String[] args) {
        float a=91.098f;
        short b;
        b=(short) a;
        System.out.println(b);
    }
}
```

```
📳 Markers 📋 Properties 🚜 Servers ╟ Data Source Explorer 🔓 Snippets 🧢 Terminal 📮 Console 🔀
<terminated> DataTypes [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 4:18:10 pm – 4:18:11 pm)
91
```

Conclusion: Conversion of data from float data type to short datatype is possible but Explicit type conversion is required

```
package com.assignment;
public class DataTypes {
    public static void main(String[] args) {
        float a=91.098f;
        int b;
        b= (int) a;
        System.out.println(b);
    1
```

```
Markers Properties Servers Data Source Explorer Snippets Properties Console X<br/>
<terminated> Data Types [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 4:19:47 pm – 4:19:47 pm) [pid: 91
```

Conclusion: Conversion of data from float data type to int datatype is possible but Explicit type conversion is required

```
package com.assignment;

public class DataTypes {
    public static void main(String[] args) {
        float a=91.098f;
        long b;
        b= (long) a;
        System.out.println(b);
    }
}
```

```
Markers Properties Servers Data Source Explorer Snippets Terminal Console X cterminated> DataTypes [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 4:20:57 pm – 4:20:57 pm) [pic 91]
```

Conclusion: Conversion of data from float data type to long datatype is possible but Explicit type conversion is required.

```
package com.assignment;

public class DataTypes {
    public static void main(String[] args) {
        float a=12.123f;
        float b;
        b=a;
        System.out.println(b);
    }
}
```

```
Markers Properties & Servers Data Source Explorer Snippets Properties Console X

<terminated> DataTypes [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 6:35:28 pm – 6:35:29 pm 12.123
```

Conclusion: Conversion of data is not required.

```
package com.assignment;
public class DataTypes {
     public static void main(String[] args) {
          float a=91.098f;
          double b;
          b=a;
          System.out.println(b);
     1
 🦹 Markers 🔳 Properties 🚜 Servers 腱 Data Source Explorer 📔 Snippets 🧢 Terminal 📮 Console 🗶
<terminated> DataTypes [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 4:22:12 pm - 4
 91.0979995727539
Conclusion: Conversion of data from float data type to double datatype is possible Implicitly.
package com.assignment;
 public class DataTypes {
     public static void main(String[] args) {
         float a=18.12f;
          boolean b;
          b=a;
          System.out.println(b);
     }
 }
 🛃 Markers 🔳 Properties 🚜 Servers 🐞 Data Source Explorer 📔 Snippets 🥒 Terminal 📮 Console 🔀
<terminated> DataTypes [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 4:48:55 pm - 4:48:55 pm) [pi
Exception in thread "main" java.lang.Error: Unresolved compilation problem:
          Type mismatch: cannot convert from float to boolean
          at com.assignment/com.assignment.DataTypes.main(DataTypes.java:7)
Conclusion: Conversion of data from float data type to boolean datatype is not possible
package com.assignment;
public class DataTypes {
     public static void main(String[] args) {
          double a=33.4567890;
          char b;
         b=(char) a;
          System.out.println(b);
     }
}
```

```
Markers Properties Servers Data Source Explorer Snippets Preminal Console X cterminated> Data Types [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 4:24:06 pm – 4:24:07 pm) [pid: 63]
```

Conclusion: Conversion of data from double data type to char datatype is possible but Explicit type conversion is required

```
package com.assignment;

public class DataTypes {
    public static void main(String[] args) {
        double a=33.4567890;
        byte b;
        b=(byte) a;
        System.out.println(b);
    }
}
```

Conclusion: Conversion of data from double data type to byte datatype is possible but Explicit type conversion is required

```
package com.assignment;

public class DataTypes {
    public static void main(String[] args) {
        double a=33.4567890;
        short b;
        b=(short) a;
        System.out.println(b);
    }
}
```

```
Markers Properties Servers Data Source Explorer Snippets Properties Console X <a href="mailto:character"><a href="mailto:characte
```

Conclusion: Conversion of data from double data type to short datatype is possible but Explicit type conversion is required

```
package com.assignment;

public class DataTypes {

public static void main(String[] args) {

double a=33.4567890;

int b;

b=(int) a;

System.out.println(b);

}

Markers Properties Servers Data Source Explorer Snippets Terminal Console ×

<terminated> DataTypes [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 4:28:15 pm - 4:28:15 pm) [pid: 11]
```

Conclusion: Conversion of data from double data type to int datatype is possible but Explicit type conversion is required.

```
package com.assignment;

public class DataTypes {
    public static void main(String[] args) {
        double a=33.4567890;
        long b;
        b=(long) a;
        System.out.println(b);
    }
}
```

Conclusion: Conversion of data from double data type to long datatype is possible but Explicit type conversion is required.

```
package com.assignment;

public class DataTypes {
    public static void main(String[] args) {
        double a=33.4567890;
        float b;
        b=(float) a;
        System.out.println(b);
    }
}
```

```
Markers ☐ Properties ♣ Servers ♠ Data Source Explorer ☐ Snippets ♣ Terminal ☐ Console × <terminated> DataTypes [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 4:31:02 pm – 4:31:02 33 . 456787
```

Conclusion: Conversion of data from double data type to float datatype is possible but Explicit type conversion is required.

```
public class DataTypes {
    public static void main(String[] args) {
        double a=12.1230987;
        double b;
        b=a;
        System.out.println(b);
    }
}

Markers Properties & Servers Data Source Explorer Snippets Terminal Console ×
<terminated> DataTypes [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 6:36:54 pm - 6:36:54 pm
```

Conclusion: Conversion of data is not required.

12.1230987

```
package com.assignment;

public class DataTypes {
    public static void main(String[] args) {
        double a=18.12;
        boolean b;
        b=a;
        System.out.println(b);
    }
}
```

```
Markers ☐ Properties ♣ Servers ☐ Data Source Explorer ☐ Snippets ♣ Terminal ☐ Console ×

*terminated> DataTypes [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 4:50:53 pm - 4:50:53 pm) |

Exception in thread "main" java.lang.Error: Unresolved compilation problem:

Type mismatch: cannot convert from double to boolean
```

at com.assignment/com.assignment.DataTypes.main(DataTypes.java:7)

Conclusion: Conversion of data from double data type to boolean datatype is not possible.

Conclusion: Conversion of data from Boolean data type to char data type is not possible.

```
package com.assignment;

public class DataTypes {
    public static void main(String[] args) {
        boolean a=true;
        byte b;
        b=a;
        System.out.println(b);
    }
}
```

```
Markers ☐ Properties ♣ Servers ☐ Data Source Explorer ☐ Snippets ♬ Terminal ☐ Console ×

<terminated> DataTypes [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 4:36:31 pm - 4:36:31

Exception in thread "main" java.lang.Error: Unresolved compilation problem:

Type mismatch: cannot convert from boolean to byte

at com.assignment/com.assignment.DataTypes.main(DataTypes.java:7)
```

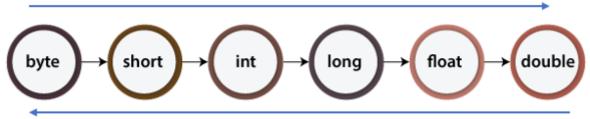
Conclusion: Conversion of data from Boolean data type to byte data type is not possible.

```
package com.assignment;
 public class DataTypes {
     public static void main(String[] args) {
          boolean a=true;
          short b;
          b=a;
          System.out.println(b);
      }
📳 Markers 🔳 Properties 🚜 Servers 🐞 Data Source Explorer 📔 Snippets 🥒 Terminal 📮 Console 🔀
<terminated> DataTypes [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 4:37:24 pm - 4:37:25 pm)
Exception in thread "main" java.lang.Error: Unresolved compilation problem:
         Type mismatch: cannot convert from boolean to short
         at com.assignment/com.assignment.DataTypes.main(DataTypes.java:7)
Conclusion: Conversion of data from Boolean data type to short data type is not possible.
 package com.assignment;
 public class DataTypes {
      public static void main(String[] args) {
          boolean a=true;
          int b;
          b=(int) a;
          System.out.println(b);
      }
 }
📳 Markers 🔲 Properties 🚜 Servers 🐞 Data Source Explorer 🚡 Snippets 🥒 Terminal 📮 Console 🔀
<terminated> DataTypes [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 4:37:24 pm - 4:37:25 pm) [pid:
Exception in thread "main" java.lang.Error: Unresolved compilation problem:
         Type mismatch: cannot convert from boolean to short
         at com.assignment/com.assignment.DataTypes.main(DataTypes.java:7)
Conclusion: Conversion of data from Boolean data type to int data type is not possible.
 package com.assignment;
 public class DataTypes {
     public static void main(String[] args) {
          boolean a=true;
          long b;
          b= a;
          System.out.println(b);
      }
 }
```

```
📳 Markers 🔳 Properties 🚜 Servers 🐞 Data Source Explorer 📔 Snippets 🥒 Terminal 📮 Console 🔀
 <terminated> DataTypes [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 4:39:10 pm - 4:39:11 p
 Exception in thread "main" java.lang.Error: Unresolved compilation problem:
          Type mismatch: cannot convert from boolean to long
          at com.assignment/com.assignment.DataTypes.main(DataTypes.java:7)
Conclusion: Conversion of data from Boolean data type to long data type is not possible.
package com.assignment;
public class DataTypes {
     public static void main(String[] args) {
         boolean a=true;
         float b;
         b=a;
         System.out.println(b);
     }
}
🛃 Markers 🔳 Properties 🚜 Servers 🐞 Data Source Explorer 📔 Snippets 🥒 Terminal 📮 Console 🔀
<terminated> DataTypes [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 4:40:14 pm - 4:40:
Exception in thread "main" java.lang.Error: Unresolved compilation problem:
         Type mismatch: cannot convert from boolean to float
         at com.assignment/com.assignment.DataTypes.main(DataTypes.java:7)
Conclusion: Conversion of data from Boolean data type to float data type is not possible.
 package com.assignment;
 public class DataTypes {
     public static void main(String[] args) {
          boolean a=true;
          double b;
          b= a;
          System.out.println(b);
      }
 }
🛃 Markers 🔳 Properties 🚜 Servers 🐞 Data Source Explorer 📔 Snippets 🥒 Terminal 📮 Console 🔀
<terminated> DataTypes [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jun-2023, 4:41:08 pm - 4:4
Exception in thread "main" java.lang.Error: Unresolved compilation problem:
         Type mismatch: cannot convert from boolean to double
         at com.assignment/com.assignment.DataTypes.main(DataTypes.java:7)
```

Conclusion: Conversion of data from Boolean data type to float data type is not possible

Implicit type casting



_			_
Evn	licit t	VDO C	asting
LAP	HUIL L	vpe u	asung

	Char	Byte	Short	Int	Long	Float	Double	Boolean
char	CNR	✓	✓	✓	✓	\checkmark	\checkmark	X
		E	Е	1	1	1	1	~
byte	\checkmark	CNR	\checkmark	\checkmark	\checkmark	✓	\checkmark	X
	E		1	1	1	1	1	^
short	\checkmark	✓	CNR	✓	✓	✓	✓	X
	E	Е		1	1	1	1	A
int	\checkmark	✓	\checkmark	CNR	\checkmark	✓	✓	X
	Е	E	Е		1	1	1	A
long	\checkmark	✓	\checkmark	\checkmark	CNR	✓	✓	X
	Е	E	Е	E		1	1	7
float	\checkmark	✓	\checkmark	\checkmark	\checkmark	CNR	✓	X
	Е	E	Е	E	E		1	A
double	\checkmark	✓	\checkmark	✓	✓	✓	CNR	X
	E	E	E	E	E	Е		
boolean	Х	Х	Х	Х	Х	X	X	CNR

CNR = Casting Not Required

✓ = Casting is Possible.

X = Casting is not Possible.

E = Explicit Type Casting

I = Implicit Type Casting