

PRIMITIVE DATA TYPE

Assignment: 4

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Char to byte

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         char a='$';
7         byte b;
8         //b=a;//error
9         b=(byte)a;//Explicit type conversion
10        System.out.println("a="+a);
11        System.out.println("b="+b);
12
13
14    }
15
16 }
17
```

```
<
Console ×
<terminated> Demo (5) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20-Jul-2023, 8:38:05 pm – 8:38:05 pm)
a=$
b=36
```

Char to short

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         char a='$';
7         int b;
8         //b=a;//error
9         b=(short)a;//Explicit type conversion
10        System.out.println("a="+a);
11        System.out.println("b="+b);
12
13
14    }
15
16 }
17 |
```

```
<
Console ×
<terminated> Demo (5) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20-Jul-2023, 8:44:13 pm – 8:44:14 pm)
a=$
b=36
```

Char to int

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         char a='$';
7         int b;
8         b=a; //Implicit type conversion
9         System.out.println("a="+a);
10        System.out.println("b="+b);
11
12    }
13
14 }
15 }
16
```

```
<
Console ×
<terminated> Demo (5) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20-Jul-2023, 8:45:12 pm – 8:45:13 pm)
a=$
b=36
```

Char to long

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         char a='$';
7         long b;
8         b=a; //Implicit type conversion
9         System.out.println("a="+a);
10        System.out.println("b="+b);
11
12    }
13
14 }
15 }
16
```

```
<
Console ×
<terminated> Demo (5) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20-Jul-2023, 8:45:52 pm – 8:45:52 pm)
a=$
b=36
```

Char to float

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         char a='$';
7         float b;
8         b=a;//Implicit type conversion
9         System.out.println("a="+a);
10        System.out.println("b="+b);
11
12    }
13
14 }
15 }
16
```

```
<terminated> Demo (5) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20-Jul-2023, 8:47:08 pm – 8:47:09 pm)
a=$
b=36.0
```

Char to double

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         char a='$';
7         double b;
8         b=a;//Implicit type conversion
9         System.out.println("a="+a);
10        System.out.println("b="+b);
11
12    }
13
14 }
15 }
16
```

```
<terminated> Demo (5) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20-Jul-2023, 8:47:36 pm – 8:47:36 pm)
a=$
b=36.0
```

Char to Boolean

```
*Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         char a='$';
7         boolean b;
8         b=a; //Error
9         System.out.println("a="+a);
10        System.out.println("b="+b);
11
12
13    }
14
15 }
16
```

Byte to char

```
*Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         byte a=42;
7         char b;
8         //b=a; //Error
9         b=(char)a; //Explicit type conversion
10        System.out.println("a="+a);
11        System.out.println("b="+b);
12
13
14    }
15
16 }
17
```

<

```
Console ×
<terminated> Demo (5) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20-Jul-2023, 8:52:36 pm – 8:52:37 pm)
a=42
b=*
```

Byte to short

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         byte a=42;
7         short b;
8         b=a; //Implicit type conversion
9         System.out.println("a="+a);
10        System.out.println("b="+b);
11
12    }
13
14 }
15
16
```

```
<
<terminated> Demo (5) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20-Jul-2023, 8:54:11 pm – 8:54:11 pm)
a=42
b=42
```

Byte to int

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         byte a=42;
7         int b;
8         b=a; //Implicit type conversion
9         System.out.println("a="+a);
10        System.out.println("b="+b);
11
12    }
13
14 }
15
16
```

```
<
<terminated> Demo (5) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20-Jul-2023, 8:54:55 pm – 8:54:56 pm)
a=42
b=42
```

Byte to long

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         byte a=42;
7         long b;
8         b=a;//Implicit type conversion
9         System.out.println("a="+a);
10        System.out.println("b="+b);
11
12    }
13
14 }
15
16
```

```
<
Console ×
<terminated> Demo (5) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20-Jul-2023, 8:55:24 pm – 8:55:24 pm)
a=42
b=42
```

Byte to float

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         byte a=42;
7         float b;
8         b=a;//Implicit type conversion
9         System.out.println("a="+a);
10        System.out.println("b="+b);
11
12    }
13
14 }
15
16
```

```
<
Console ×
<terminated> Demo (5) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20-Jul-2023, 8:55:53 pm – 8:55:53 pm)
a=42
b=42.0
```

Byte to double

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         byte a=42;
7         double b;
8         b=a;//Implicit type conversion
9         System.out.println("a="+a);
10        System.out.println("b="+b);
11
12
13    }
14
15 }
16
```

```
Console ×
<terminated> Demo (5) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20-Jul-2023, 8:56:26 pm – 8:56:27 pm)
a=42
b=42.0
```

Byte to Boolean

```
*Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         byte a=42;
7         boolean b;
8         b=a;//Error|
9         System.out.println("a="+a);
10        System.out.println("b="+b);
11
12
13    }
14
15 }
16
```


Short to char

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         short a=42;
7         char b;
8         //b=a;//Error
9         b=(char) a;//Explicit type conversion
10        System.out.println("a="+a);
11        System.out.println("b="+b);
12
13    }
14
15 }
16 }
17
```

```
<terminated> Demo (5) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20-Jul-2023, 9:07:42 pm – 9:07:42 pm)
a=42
b=*
```

Short to byte

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         short a=42;
7         byte b;
8         //b=a;//Error
9         b=(byte) a;//Explicit type conversion
10        System.out.println("a="+a);
11        System.out.println("b="+b);
12
13    }
14
15 }
16 }
17
```

```
<terminated> Demo (5) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20-Jul-2023, 9:46:57 pm – 9:46:57 pm)
a=42
b=42
```

Short to int

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         short a=42;
7         int b;
8         b=a;//Implicit type conversion
9         System.out.println("a="+a);
10        System.out.println("b="+b);
11
12
13    }
14
15 }
16
```

```
<
Console ×
<terminated> Demo (5) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20-Jul-2023, 9:47:56 pm – 9:47:56 pm)
a=42
b=42
```

Short to long

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         short a=42;
7         long b;
8         b=a;//Implicit type conversion
9         System.out.println("a="+a);
10        System.out.println("b="+b);
11
12
13    }
14
15 }
16
```

```
<
Console ×
<terminated> Demo (5) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20-Jul-2023, 9:48:36 pm – 9:48:36 pm)
a=42
b=42
```

Short to float

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         short a=42;
7         float b;
8         b=a;//Implicit type conversion
9         System.out.println("a="+a);
10        System.out.println("b="+b);
11
12    }
13
14 }
15 }
16
```

```
<terminated> Demo (5) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20-Jul-2023, 9:49:09 pm – 9:49:09 pm)
a=42
b=42.0
```

Short to double

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         short a=42;
7         double b;
8         b=a;//Implicit type conversion
9         System.out.println("a="+a);
10        System.out.println("b="+b);
11
12    }
13
14 }
15 }
16
```

```
<terminated> Demo (5) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20-Jul-2023, 9:49:37 pm – 9:49:37 pm)
a=42
b=42.0
```

Short to Boolean

```
*Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         short a=42;
7         boolean b;
8         b=a; //Error
9         System.out.println("a="+a);
10        System.out.println("b="+b);
11
12    }
13
14 }
15 }
16
```

Int to char

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         int a=36;
7         char b;
8         //b=a; //Error
9         b=(char)a; //Explicit type conversion
10        System.out.println("a="+a);
11        System.out.println("b="+b);
12
13    }
14
15 }
16 }
17
```

<

```
Console ×
<terminated> Demo (5) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20-Jul-2023, 9:54:20 pm – 9:54:20 pm)
a=36
b=$
```

Int to byte

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         int a=36;
7         byte b;
8         //b=a;//Error
9         b=(byte)a;//Explicit type conversion
10        System.out.println("a="+a);
11        System.out.println("b="+b);
12
13    }
14
15
16 }
17
```

```
<
Console ×
<terminated> Demo (5) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20-Jul-2023, 9:54:53 pm – 9:54:54 pm)
a=36
b=36
```

Int to short

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         int a=36;
7         short b;
8         //b=a;//Error
9         b=(short)a;//Explicit type conversion
10        System.out.println("a="+a);
11        System.out.println("b="+b);
12
13    }
14
15
16 }
17
```

```
<
Console ×
<terminated> Demo (5) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20-Jul-2023, 9:55:22 pm – 9:55:23 pm)
a=36
b=36
```

Int to long

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         int a=36;
7         long b;
8         b=a;//Implicit type conversion
9         System.out.println("a="+a);
10        System.out.println("b="+b);
11
12    }
13
14 }
15
16
```

```
<terminated> Demo (5) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20-Jul-2023, 9:56:09 pm – 9:56:09 pm)
a=36
b=36
<terminated> Demo (5) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20-Jul-2023, 9:56:09 pm – 9:56:09 pm)
```

Int to float

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         int a=36;
7         float b;
8         b=a;//Implicit type conversion
9         System.out.println("a="+a);
10        System.out.println("b="+b);
11
12    }
13
14 }
15
16
```

```
<terminated> Demo (5) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20-Jul-2023, 9:56:41 pm – 9:56:42 pm)
a=36
b=36.0
<terminated> Demo (5) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20-Jul-2023, 9:56:42 pm – 9:56:42 pm)
```

Int to double

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         int a=36;
7         double b;
8         b=a;//Implicit type conversion
9         System.out.println("a="+a);
10        System.out.println("b="+b);
11    }
12
13 }
14
15 }
16
```

```
Console ×
<terminated> Demo (5) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20-Jul-2023, 9:57:10 pm – 9:57:10 pm)
a=36
b=36.0
```

Int to Boolean

```
*Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         int a=36;
7         boolean b;
8         b=a;//Error
9         System.out.println("a="+a);
10        System.out.println("b="+b);
11    }
12
13 }
14
15 }
16
```

Long to char

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         long a=63L;
7         char b;
8         //b=a;//error|
9         b=(char) a;//Explicit type conversion
10        System.out.println("a="+a);
11        System.out.println("b="+b);
12
13
14    }
15
16 }
17
```

```
<
Console ×
<terminated> Demo (5) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20-Jul-2023, 10:47:49 pm – 10:47:49 pm)
a=63
b=?
```

Long to byte

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         long a=63L;
7         byte b;
8         //b=a;//error
9         b=(byte) a;//Explicit type conversion
10        System.out.println("a="+a);
11        System.out.println("b="+b);
12
13
14    }
15
16 }
17
```

```
<
Console ×
<terminated> Demo (5) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20-Jul-2023, 10:49:30 pm – 10:49:31 pm)
a=63
b=63
```


Long to short

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         long a=63L;
7         short b;
8         //b=a;//error
9         b=(short) a;//Explicit type conversion
10        System.out.println("a="+a);
11        System.out.println("b="+b);
12
13
14    }
15
16 }
17
```

```
<terminated> Demo (5) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20-Jul-2023, 10:51:04 pm – 10:51:04 pm)
a=63
b=63
```

Long to int

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         long a=63L;
7         int b;
8         //b=a;//error
9         b=(int) a;//Explicit type conversion
10        System.out.println("a="+a);
11        System.out.println("b="+b);
12
13
14    }
15
16 }
17
```

```
<terminated> Demo (5) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20-Jul-2023, 10:51:47 pm – 10:51:47 pm)
a=63
b=63
```

Long to float

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         long a=63L;
7         float b;
8         b=a;//Implicit type conversion
9         System.out.println("a="+a);
10        System.out.println("b="+b);
11
12    }
13
14 }
15
16
```

```
<terminated> Demo (5) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20-Jul-2023, 10:52:46 pm – 10:52:47 p
a=63
b=63.0
```

Long to double

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         long a=63L;
7         double b;
8         b=a;//Implicit type conversion
9         System.out.println("a="+a);
10        System.out.println("b="+b);
11
12    }
13
14 }
15
16
```

```
<terminated> Demo (5) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20-Jul-2023, 10:52:46 pm – 10:52:47 p
a=63
b=63.0
```

Long to Boolean

```
*Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         long a=63L;
7         boolean b;
8         b=a; //Error
9         System.out.println("a="+a);
10        System.out.println("b="+b);
11
12    }
13
14
15 }
16
```

Float to char

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         float a=63.0f;
7         char b;
8         //b=a; //Error
9         b=(char)a; //Explicit type conversion
10        System.out.println("a="+a);
11        System.out.println("b="+b);
12
13    }
14
15
16 }
17
```

```
<
Console ×
<terminated> Demo (5) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20-Jul-2023, 10:21:11 pm – 10:21:11 p
a=63.0
b=?
```

Float to byte

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         float a=63.0f;
7         byte b;
8         //b=a;//Error
9         b=(byte)a;//Explicit type conversion
10        System.out.println("a="+a);
11        System.out.println("b="+b);
12
13    }
14
15 }
16
17
```

```
<
Console ×
<terminated> Demo (5) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20-Jul-2023, 10:22:19 pm – 10:22:19 pm)
a=63.0
b=63
```

Float to short

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         float a=63.0f;
7         short b;
8         //b=a;//Error
9         b=(short)a;//Explicit type conversion
10        System.out.println("a="+a);
11        System.out.println("b="+b);
12
13    }
14
15 }
16
17
```

```
<
Console ×
<terminated> Demo (5) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20-Jul-2023, 10:22:54 pm – 10:22:54 pm)
a=63.0
b=63
```

Float to int

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         float a=63.0f;
7         int b;
8         //b=a;//Error
9         b=(int)a;//Explicit type conversion
10        System.out.println("a="+a);
11        System.out.println("b="+b);
12
13    }
14
15 }
16 }
17
```

```
<terminated> Demo (5) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20-Jul-2023, 10:24:55 pm – 10:24:55 pm)
a=63.0
b=63
```

Float to long

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         float a=63.0f;
7         long b;
8         //b=a;//Error
9         b=(long)a;//Explicit type conversion
10        System.out.println("a="+a);
11        System.out.println("b="+b);
12
13    }
14
15 }
16 }
17
```

```
<terminated> Demo (5) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20-Jul-2023, 10:26:41 pm – 10:26:41 pm)
a=63.0
b=63
```

Float to double

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         float a=63.0f;
7         double b;
8         b=a; //Implicit type conversion
9         System.out.println("a="+a);
10        System.out.println("b="+b);
11
12
13    }
14
15 }
16
```

```
Console ×
<terminated> Demo (5) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20-Jul-2023, 10:28:00 pm – 10:28:00 pm)
a=63.0
b=63.0
```

Float to Boolean

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         float a=63.0f;
7         boolean b;
8         b=a; //Error
9         System.out.println("a="+a);
10        System.out.println("b="+b);
11
12
13    }
14
15 }
16
```

Double to char

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         double a=63.0;
7         char b;
8         //b=a;//Error
9         b=(char)a;//Explicit type conversion
10        System.out.println("a="+a);
11        System.out.println("b="+b);
12
13
14    }
15
16 }
17
```

```
<terminated> Demo (5) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20-Jul-2023, 10:30:49 pm - 10:30:49 pm)
a=63.0
b=?
```

Double to byte

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         double a=63.0;
7         byte b;
8         //b=a;//Error
9         b=(byte)a;//Explicit type conversion
10        System.out.println("a="+a);
11        System.out.println("b="+b);
12
13
14    }
15 |
16 }
17
```

```
<terminated> Demo (5) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20-Jul-2023, 10:32:18 pm - 10:32:18 pm)
a=63.0
b=63
```

Double to short

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         double a=63.0;
7         short b;
8         //b=a;//Error
9         b=(short)a;//Explicit type conversion
10        System.out.println("a="+a);
11        System.out.println("b="+b);
12
13    }
14
15
16 }
17
```

```
<
Console ×
<terminated> Demo (5) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20-Jul-2023, 10:33:16 pm – 10:33:16 pm)
a=63.0
b=63
```

Double to int

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         double a=63.0;
7         int b;
8         //b=a;//Error
9         b=(int)a;//Explicit type conversion
10        System.out.println("a="+a);
11        System.out.println("b="+b);
12
13    }
14
15
16 }
17
```

```
<
Console ×
<terminated> Demo (5) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20-Jul-2023, 10:33:49 pm – 10:33:49 pm)
a=63.0
b=63
```


Double to long

```
Demo.java x
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         double a=63.0;
7         long b;
8         //b=a;//Error
9         b=(long)a;//Explicit type conversion
10        System.out.println("a="+a);
11        System.out.println("b="+b);
12
13    }
14
15
16 }
17
```

```
<terminated> Demo (5) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20-Jul-2023, 10:34:53 pm - 10:34:53 pm)
a=63.0
b=63
```

Double to float

```
Demo.java x
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         double a=63.0;
7         float b;
8         //b=a;//Error
9         b=(float)a;//Explicit type conversion
10        System.out.println("a="+a);
11        System.out.println("b="+b);
12
13    }
14
15
16 }
17
```

```
<terminated> Demo (5) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20-Jul-2023, 10:36:06 pm - 10:36:06 pm)
a=63.0
b=63.0
```

Double to Boolean

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         double a=63.0;
7         boolean b;
8         b=a; //Error
9         System.out.println("a="+a);
10        System.out.println("b="+b);
11
12
13    }
14
15 }
16
```

Boolean to char

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         boolean a=true;
7         char b;
8         b=a; //error
9         System.out.println("a="+a);
10        System.out.println("b="+b);
11
12
13    }
14
15 }
16
```

Boolean to byte

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         boolean a=true;
7         byte b;
8         b=a; //error
9         System.out.println("a="+a);
10        System.out.println("b="+b);
11
12
13    }
14
15 }
16
```

Boolean to short

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         boolean a=true;
7         short b;
8         b=a; //error
9         System.out.println("a="+a);
10        System.out.println("b="+b);
11
12
13    }
14
15 }
16
```

Boolean to int

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         boolean a=true;
7         int b;
8         b=a;//error
9         System.out.println("a="+a);
10        System.out.println("b="+b);
11
12
13    }
14
15 }
16
```

Boolean to long

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         boolean a=true;
7         long b;
8         b=a;//error
9         System.out.println("a="+a);
10        System.out.println("b="+b);
11
12
13    }
14
15 }
16
```

Boolean to float

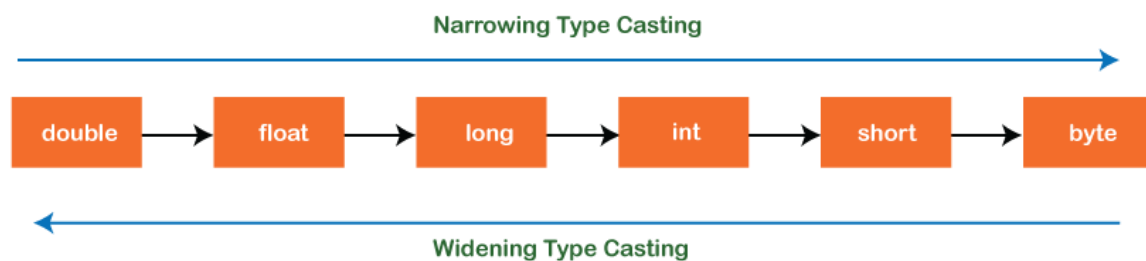
```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         boolean a=true;
7         float b;
8         b=a; //error
9         System.out.println("a="+a);
10        System.out.println("b="+b);
11
12    }
13
14
15 }
16
```

Boolean to double

```
Demo.java ×
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         boolean a=true;
7         double b;
8         b=a; //error
9         System.out.println("a="+a);
10        System.out.println("b="+b);
11
12    }
13
14
15 }
16
```

TABLE:

	CHAR	BYTE	SHORT	INT	LONG	FLOAT	DOUBLE	BOOLEAN
CHAR	NCR	√ ETC	√ ETC	√ ITC	√ ITC	√ ITC	√ ITC	×
BYTE	√ ETC	NCR	√ ITC	√ ITC	√ ITC	√ ITC	√ ITC	×
SHORT	√ ETC	√ ETC	NCR	√ ITC	√ ITC	√ ITC	√ ITC	×
INT	√ ETC	√ ETC	√ ETC	NCR	√ ITC	√ ITC	√ ITC	×
LONG	√ ETC	√ ETC	√ ETC	√ ETC	NCR	√ ITC	√ ITC	×
FLOAT	√ ETC	√ ETC	√ ETC	√ ETC	√ ETC	NCR	√ ITC	×
DOUBLE	√ ETC	√ ETC	√ ETC	√ ETC	√ ETC	√ ETC	NCR	×
BOOLEAN	×	×	×	×	×	×	×	NCR

**Type Casting in Java**