

Data types and its conversions

1. byte to char

```
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         byte a = 8;
7         // char x=a; error
8         char x=(char) a;
9         System.out.println(x);
10    }
11 }
```

Problems Javadoc Declaration Console X

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 8:00:30 pm – 8:00:34 pm) [pid: 4836]

Conclusion: Implicit conversion is done here

short to char

```
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         short a = 8;
7         // char x=a; error
8         char x=(char) a;
9         System.out.println(x);
10    }
11 }
```

Problems Javadoc Declaration Console X

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 8:04:58 pm – 8:05:02 pm) [pid: 19936]

Conclusion: Implicit conversion is done here

int to char

```
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         int a = 8;
7         // char x=a; error
8         char x=(char) a;
9         System.out.println(x);
10    }
11 }
```

Problems Javadoc Declaration Console X

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 8:05:36 pm – 8:05:41 pm) [pid: 11304]

Conclusion: Implicit conversion is done her.

float to char

```
Veeru.java X
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         float a = 8;
7         // char x=a;      error
8         char x=(char) a;
9         System.out.println(x);
10    }
11 }
```

Problems Javadoc Declaration Console X

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 8:06:14 pm – 8:06:19 pm) [pid: 18632]

Conclusion: Implicit conversion is done here.

double to char

```
Veeru.java X
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         double a = 8;
7         // char x=a;      error
8         char x=(char) a;
9         System.out.println(x);
10    }
11 }
```

Problems Javadoc Declaration Console X

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 8:06:45 pm – 8:06:50 pm) [pid: 15192]

Conclusion: Implicit conversion is done here

long to char

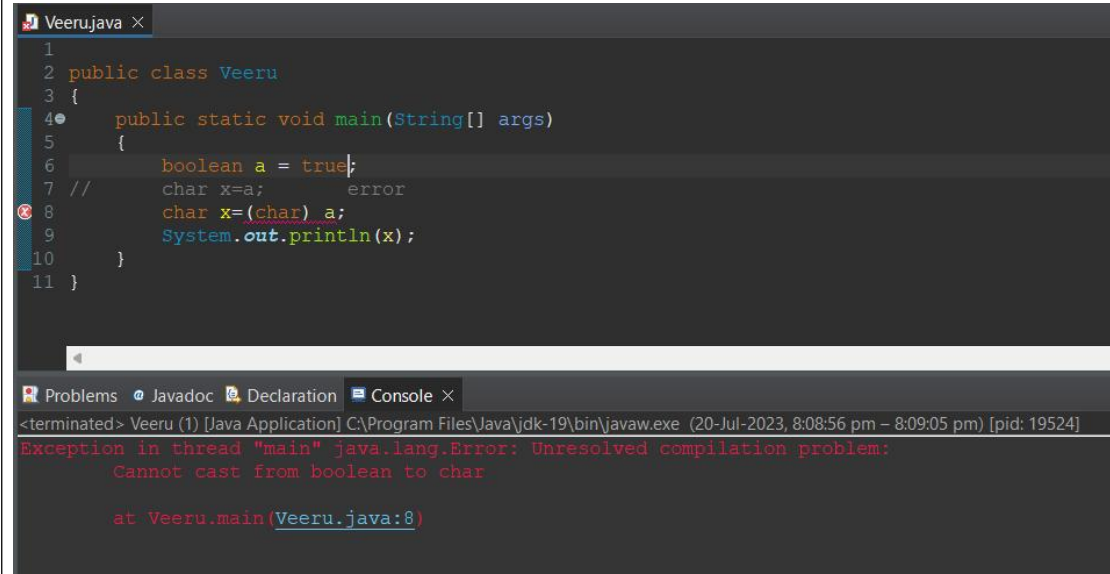
```
Veeru.java X
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         long a = 8;
7         // char x=a;      error
8         char x=(char) a;
9         System.out.println(x);
10    }
11 }
```

Problems Javadoc Declaration Console X

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 8:07:19 pm – 8:07:24 pm) [pid: 11324]

Conclusion: Implicit conversion is done here

boolean to char



```
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         boolean a = true;
7         // char x=a;          error
8         char x=(char) a;
9         System.out.println(x);
10    }
11 }
```

Problems Javadoc Declaration Console

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 8:08:56 pm – 8:09:05 pm) [pid: 19524]

Exception in thread "main" java.lang.Error: Unresolved compilation problem:
 Cannot cast from boolean to char

at Veeru.main(Veeru.java:8)

Conclusion: Error we can't convert.

char to byte

```
Veeru.java ×
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         char a = 'a';
7         // byte x=a;          error
8         byte x=(byte) a;
9         System.out.println(x);
10    }
11 }
```

Problems Javadoc Declaration Console ×

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 9:51:05 pm – 9:51:10 pm) [pid: 18084]

97

Conclusion: Implicit conversion is done here.

short to byte

```
Veeru.java ×
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         short a = 12;
7         // byte x=a;          error
8         byte x=(byte) a;
9         System.out.println(x);
10    }
11 }
```

Problems Javadoc Declaration Console ×

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 9:52:03 pm – 9:52:07 pm) [pid: 13960]

12

Conclusion: Implicit conversion is done here

int to byte

```
Veeru.java ×
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         int a = 12;
7         // byte x=a;          error
8         byte x=(byte) a;
9         System.out.println(x);
10    }
11 }
```

Problems Javadoc Declaration Console ×

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 9:52:03 pm – 9:52:07 pm) [pid: 13960]

12

Conclusion: Implicit conversion is done here

float to byte

```
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         float a = 12.12f;
7         // byte x=a;          error
8         byte x=(byte) a;
9         System.out.println(x);
10    }
11 }
```

Problems Javadoc Declaration Console ×

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 9:55:16 pm – 9:55:22 pm) [pid: 14804]

12

Conclusion: Implicit conversion is done here

double to byte

```
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         double a = 12.12;
7         // byte x=a;          error
8         byte x=(byte) a;
9         System.out.println(x);
10    }
11 }
```

Problems Javadoc Declaration Console ×

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 9:56:21 pm – 9:56:26 pm) [pid: 15376]

12

Conclusion: Implicit conversion is done here

long to byte

```
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         long a = 12;
7         // byte x=a;          error
8         byte x=(byte) a;
9         System.out.println(x);
10    }
11 }
```

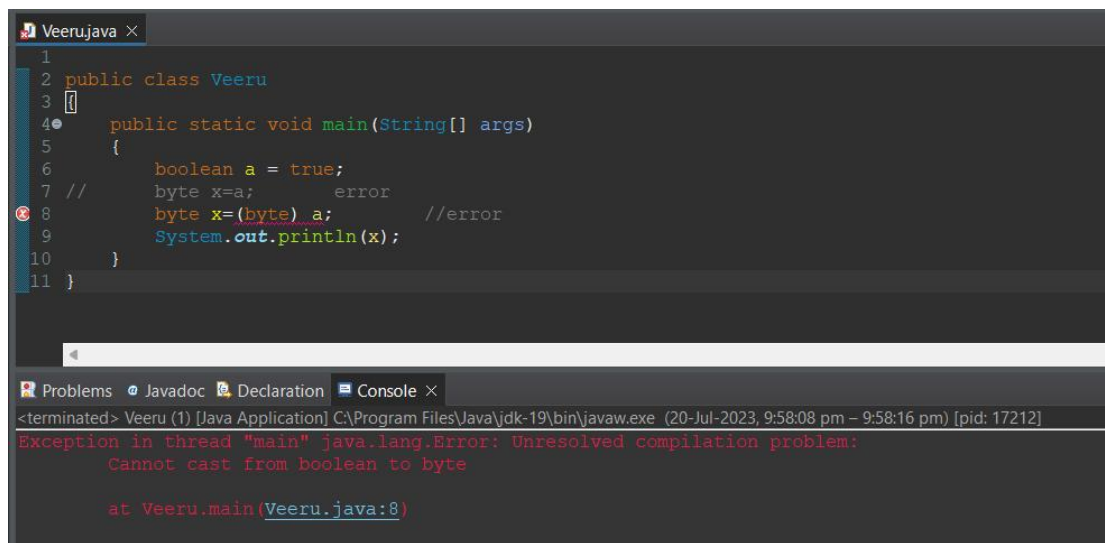
Problems Javadoc Declaration Console ×

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 9:57:14 pm – 9:57:19 pm) [pid: 10196]

12

Conclusion: Implicit conversion is done here.

boolean to byte



```
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         boolean a = true;
7         // byte x=a;          error
8         byte x=(byte) a;      //error
9         System.out.println(x);
10    }
11 }
```

Problems Javadoc Declaration Console ×

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 9:58:08 pm – 9:58:16 pm) [pid: 17212]

Exception in thread "main" java.lang.Error: Unresolved compilation problem:
Cannot cast from boolean to byte

at Veeru.main(Veeru.java:8)

Conclusion: Error! We can't convert.

char to short

```
Veeru.java ×
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         char a = 'v';
7         // short x=a;      error
8         short x=(short) a;
9         System.out.println(x);
10    }
11 }
```

Problems Javadoc Declaration Console ×

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 9:59:48 pm – 9:59:53 pm) [pid: 19512]
118

Conclusion: Implicit conversion is done here

byte to short

```
Veeru.java ×
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         byte a = 36;
7         // short x=a;      error
8         short x=(short) a;
9         System.out.println(x);
10    }
11 }
```

Problems Javadoc Declaration Console ×

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 10:00:24 pm – 10:00:29 pm) [pid: 11372]
36

Conclusion: Implicit conversion is done here

int to short

```
Veeru.java ×
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         int a = 36;
7         // short x=a;      error
8         short x=(short) a;
9         System.out.println(x);
10    }
11 }
```

Problems Javadoc Declaration Console ×

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 10:00:24 pm – 10:00:29 pm) [pid: 11372]
36

Conclusion: Implicit conversion is done here.

float to short

```
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         float a = 36.36f;
7         // short x=a;      error
8         short x=(short) a;
9         System.out.println(x);
10    }
11 }
```

Problems Javadoc Declaration Console

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 10:00:24 pm – 10:00:29 pm) [pid: 11372]
36

Conclusion: Implicit conversion is done here

double to short

```
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         double a = 36.3636;
7         // short x=a;      error
8         short x=(short) a;
9         System.out.println(x);
10    }
11 }
```

Problems Javadoc Declaration Console

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 10:02:25 pm – 10:02:30 pm) [pid: 572]
36

Conclusion: Implicit conversion is done here

long to short

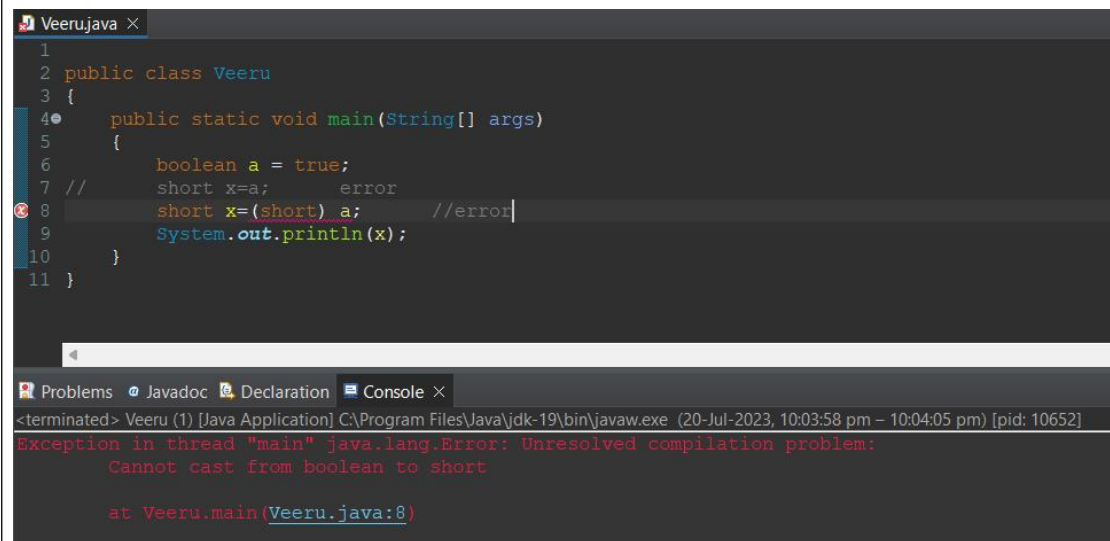
```
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         long a = 363636;
7         // short x=a;      error
8         short x=(short) a;
9         System.out.println(x);
10    }
11 }
```

Problems Javadoc Declaration Console

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 10:03:05 pm – 10:03:10 pm) [pid: 13144]
-29580

Conclusion: Implicit conversion is done here

boolean to short



```
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         boolean a = true;
7         // short x=a;      error
8         short x=(short) a; //error|
9         System.out.println(x);
10    }
11 }
```

Problems Javadoc Declaration Console X

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 10:03:58 pm – 10:04:05 pm) [pid: 10652]

Exception in thread "main" java.lang.Error: Unresolved compilation problem:
Cannot cast from boolean to short

at Veeru.main(Veeru.java:8)

Conclusion: Error! We can't convert.

char to int

```
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         char a = 'v';
7         int x = a;
8         System.out.println(x);
9     }
10 }
```

Problems Javadoc Declaration Console ×

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 10:05:22 pm – 10:05:27 pm) [pid: 14524]

118

Conclusion: Explicit conversion is done here.

byte to int

```
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         byte a = 22;
7         int x = a;
8         System.out.println(x);
9     }
10 }
```

Problems Javadoc Declaration Console ×

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 10:05:22 pm – 10:05:27 pm) [pid: 14524]

118

Conclusion: Explicit conversion is done here.

short to int

```
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         short a = 22;
7         int x = a;
8         System.out.println(x);
9     }
10 }
```

Problems Javadoc Declaration Console ×

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 10:06:32 pm – 10:06:37 pm) [pid: 10864]

22

Conclusion: Explicit conversion is done here.

float to int

```
Veeru.java ×
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         float a = 22.22f;
7         int x= (int) a;
8         System.out.println(x);
9     }
10 }
```

Problems Javadoc Declaration Console ×

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 10:06:32 pm – 10:06:37 pm) [pid: 10864]

22

Conclusion: Implicit conversion is done here.

double to int

```
Veeru.java ×
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         double a = 22.22;
7         int x= (int) a;
8         System.out.println(x);
9     }
10 }
```

Problems Javadoc Declaration Console ×

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 10:08:04 pm – 10:08:09 pm) [pid: 15932]

22

Conclusion: Explicit conversion is done here.

long to int

```
Veeru.java ×
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         long a = 2222222222L;
7         int x= (int) a;
8         System.out.println(x);
9     }
10 }
```

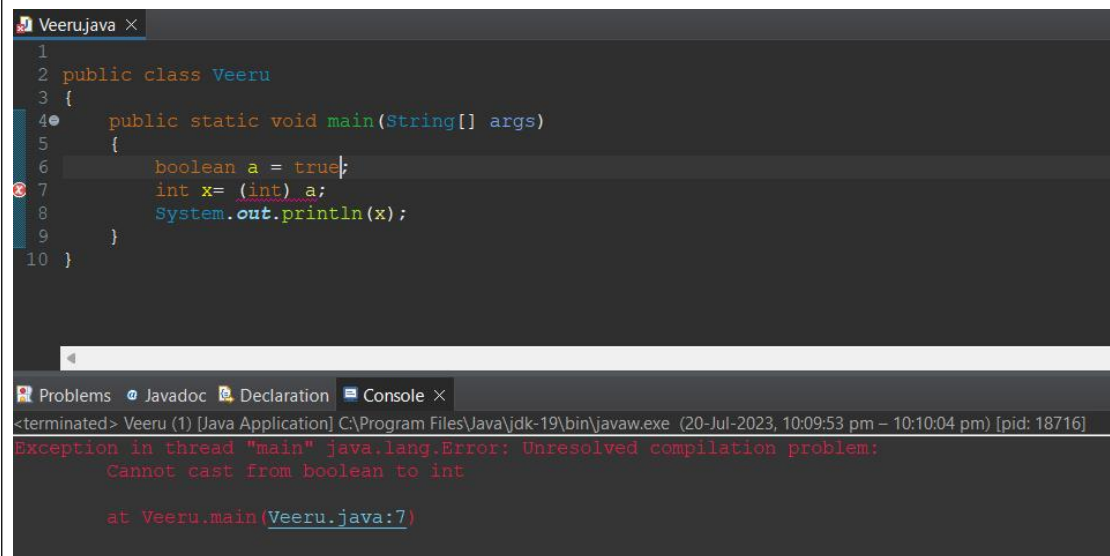
Problems Javadoc Declaration Console ×

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 10:09:02 pm – 10:09:08 pm) [pid: 6860]

-2072745074

Conclusion: Explicit conversion is done here.

boolean to int



```
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         boolean a = true;
7         int x= (int) a;
8         System.out.println(x);
9     }
10 }
```

Problems Javadoc Declaration Console X

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 10:09:53 pm – 10:10:04 pm) [pid: 18716]

Exception in thread "main" java.lang.Error: Unresolved compilation problem:
 Cannot cast from boolean to int

 at Veeru.main(Veeru.java:7)

Conclusion: Error!! we can't convert.

char to float

```
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         char a = 'v';
7         float x = a;
8         System.out.println(x);
9     }
10 }
```

Problems Javadoc Declaration Console ×

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 10:14:33 pm – 10:14:38 pm) [pid: 6184]
118.0

Conclusion: Implicit conversion is done here.

byte to float

```
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         byte a = 52;
7         float x = a;
8         System.out.println(x);
9     }
10 }
```

Problems Javadoc Declaration Console ×

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 10:16:02 pm – 10:16:07 pm) [pid: 15676]
52.0

Conclusion: Implicit conversion is done here.

int to float

```
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         int a = 52;
7         float x = a;
8         System.out.println(x);
9     }
10 }
```

Problems Javadoc Declaration Console ×

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 10:16:40 pm – 10:16:45 pm) [pid: 14844]
52.0

Conclusion: Implicit conversion is done here.

short to float

```
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         short a = 52;
7         float x = a;
8         System.out.println(x);
9     }
10 }
```

Problems Javadoc Declaration Console ×

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 10:17:34 pm – 10:17:39 pm) [pid: 17852]
52.0

Conclusion: Implicit conversion is done here.

double to float

```
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         double a = 52;
7         float x = (float) a;
8         System.out.println(x);
9     }
10 }
```

Problems Javadoc Declaration Console ×

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 10:18:17 pm – 10:18:21 pm) [pid: 15356]
52.0

Conclusion: Explicit conversion is done here.

long to float

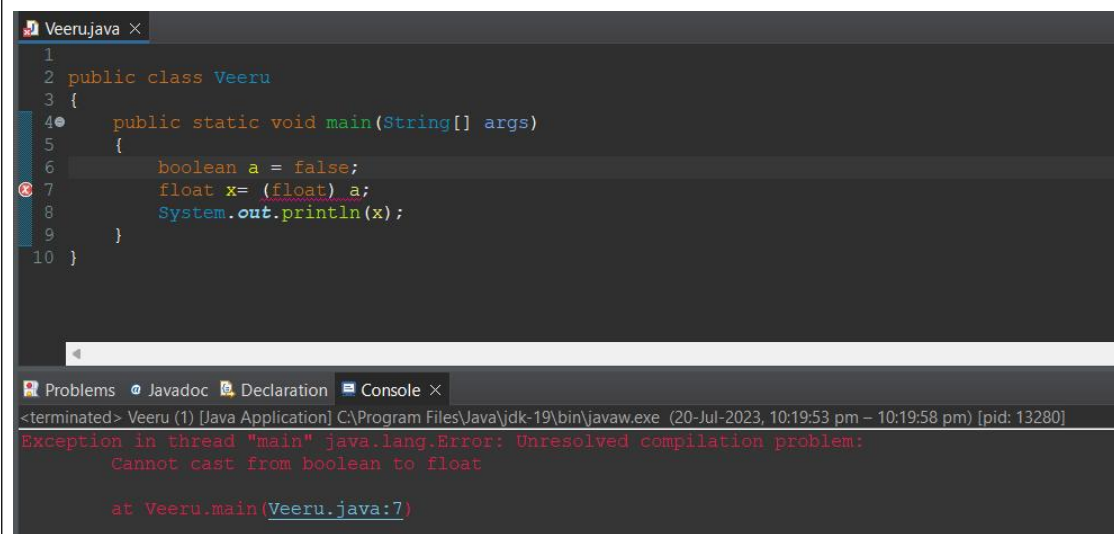
```
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         long a = 52;
7         float x = (float) a;
8         System.out.println(x);
9     }
10 }
```

Problems Javadoc Declaration Console ×

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 10:19:10 pm – 10:19:16 pm) [pid: 13140]
52.0

Conclusion: Explicit conversion is done here.

boolean to float



```
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         boolean a = false;
7         float x= (float) a;
8         System.out.println(x);
9     }
10 }
```

Problems Javadoc Declaration Console ×

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 10:19:53 pm – 10:19:58 pm) [pid: 13280]

Exception in thread "main" java.lang.Error: Unresolved compilation problem:
Cannot cast from boolean to float

at Veeru.main(Veeru.java:7)

Conclusion: Error! We can't convert.

char to double

```
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         char a = 'v';
7         double x= (double) a;
8         System.out.println(x);
9     }
10 }
```

Problems Javadoc Declaration Console ×

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 10:21:45 pm – 10:21:50 pm) [pid: 10336]
118.0

Conclusion: Explicit conversion is done here.

byte to double

```
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         byte a = 99;
7         double x= (double) a;
8         System.out.println(x);
9     }
10 }
```

Problems Javadoc Declaration Console ×

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 10:22:31 pm – 10:22:36 pm) [pid: 13000]
99.0

Conclusion: Explicit conversion is done here.

int to double

```
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         int a = 99;
7         double x= (double) a;
8         System.out.println(x);
9     }
10 }
```

Problems Javadoc Declaration Console ×

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 10:23:20 pm – 10:23:24 pm) [pid: 14888]
99.0

Conclusion: Explicit conversion is done here.

short to double

```
Veeru.java ×
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         short a = 99;
7         double x= a;
8         System.out.println(x);
9     }
10 }
```

Problems Javadoc Declaration Console ×

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 10:23:20 pm – 10:23:24 pm) [pid: 14888]

99.0

Conclusion: Implicit conversion is done here.

float to double

```
Veeru.java ×
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         float a = 99;
7         double x= a;
8         System.out.println(x);
9     }
10 }
```

Problems Javadoc Declaration Console ×

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 10:24:29 pm – 10:24:33 pm) [pid: 17668]

99.0

Conclusion: Implicit conversion is done here.

long to double

```
Veeru.java ×
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         long a = 99;
7         double x= a;
8         System.out.println(x);
9     }
10 }
```

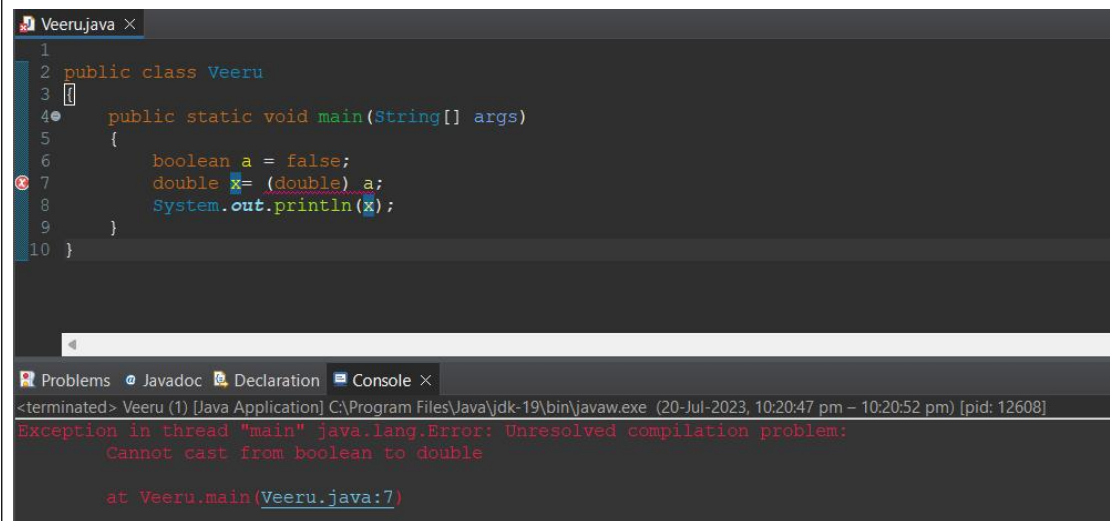
Problems Javadoc Declaration Console ×

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 10:25:04 pm – 10:25:10 pm) [pid: 15504]

99.0

Conclusion: Implicit conversion is done here.

boolean to double



```
1 public class Veeru
2 {
3     public static void main(String[] args)
4     {
5         boolean a = false;
6         double x= (double) a;
7         System.out.println(x);
8     }
9 }
10
```

Problems Javadoc Declaration Console ×

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 10:20:47 pm – 10:20:52 pm) [pid: 12608]

Exception in thread "main" java.lang.Error: Unresolved compilation problem:
 Cannot cast from boolean to double

 at Veeru.main(Veeru.java:7)

Conclusion: Error! We cant convert.

char to long

```
Veeru.java x
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         char a = 'h';
7         long x = a;
8         System.out.println(x);
9     }
10 }
```

Problems Javadoc Declaration Console x

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 10:27:07 pm – 10:27:12 pm) [pid: 14280]

104

Conclusion: Implicit conversion is done here.

byte to long

```
Veeru.java x
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         byte a = 56;
7         long x = a;
8         System.out.println(x);
9     }
10 }
```

Problems Javadoc Declaration Console x

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 10:28:08 pm – 10:28:15 pm) [pid: 18152]

56

Conclusion: Implicit conversion is done here.

int to long

```
Veeru.java x
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         int a = 56;
7         long x = a;
8         System.out.println(x);
9     }
10 }
```

Problems Javadoc Declaration Console x

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 10:28:46 pm – 10:28:51 pm) [pid: 3144]

56

Conclusion: Implicit conversion is done here.

short to long

```
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         short a = 56;
7         long x= a;
8         System.out.println(x);
9     }
10 }
```

Problems Javadoc Declaration Console X

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 10:29:24 pm – 10:29:31 pm) [pid: 12608]

56

Conclusion: Implicit conversion is done here.

double to long

```
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         double a = 56;
7         long x= (long) a;
8         System.out.println(x);
9     }
10 }
```

Problems Javadoc Declaration Console X

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 10:30:24 pm – 10:30:30 pm) [pid: 7288]

56

Conclusion: Explicit conversion is done here.

float to long

```
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         float a = 564;
7         long x= (long) a;
8         System.out.println(x);
9     }
10 }
```

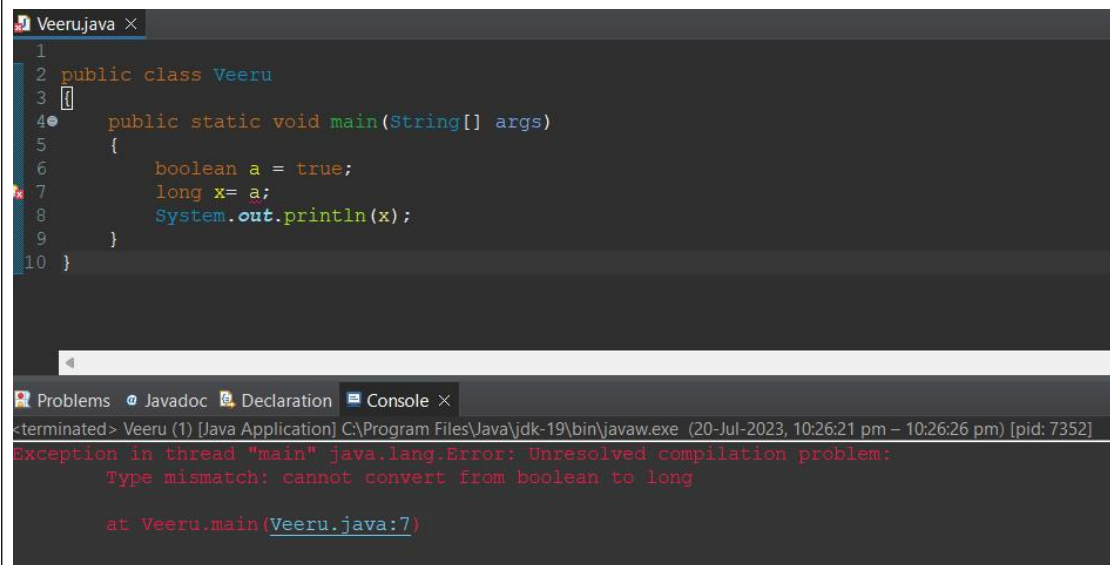
Problems Javadoc Declaration Console X

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 10:31:03 pm – 10:31:07 pm) [pid: 12408]

564

Conclusion: Explicit conversion is done here.

boolean to long



```
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         boolean a = true;
7         long x= a;
8         System.out.println(x);
9     }
10 }
```

Problems Javadoc Declaration Console ×

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 10:26:21 pm – 10:26:26 pm) [pid: 7352]

Exception in thread "main" java.lang.Error: Unresolved compilation problem:
Type mismatch: cannot convert from boolean to long

at Veeru.main(Veeru.java:7)

Conclusion: Error! We can't convert.

char to boolean

```
Veeru.java x
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         char a = 'a';
7         boolean x= (boolean) a;
8         System.out.println(x);
9     }
10 }
```

Problems Javadoc Declaration Console x

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 10:32:07 pm – 10:32:12 pm) [pid: 3404]

Exception in thread "main" java.lang.Error: Unresolved compilation problem:
Cannot cast from char to boolean

at Veeru.main(Veeru.java:7)

Conclusion: Error! We cant convert.

byte to boolean

```
Veeru.java x
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         byte a = 6;
7         boolean x= (boolean) a;
8         System.out.println(x);
9     }
10 }
```

Problems Javadoc Declaration Console x

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 10:32:52 pm – 10:32:58 pm) [pid: 3020]

Exception in thread "main" java.lang.Error: Unresolved compilation problem:
Cannot cast from byte to boolean

at Veeru.main(Veeru.java:7)

Conclusion: Error! We cant convert.

int to boolean

```
Veeru.java x
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         int a = 6;
7         boolean x= (boolean) a;
8         System.out.println(x);
9     }
10 }
```

Problems Javadoc Declaration Console x

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 10:33:26 pm – 10:33:31 pm) [pid: 18628]

Exception in thread "main" java.lang.Error: Unresolved compilation problem:
Cannot cast from int to boolean

at Veeru.main(Veeru.java:7)

Conclusion: Error! We cant convert.

short to boolean

```
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         short a = 6;
7         boolean x= (boolean) a;
8         System.out.println(x);
9     }
10 }
```

Problems Javadoc Declaration Console

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 10:34:13 pm – 10:34:18 pm) [pid: 18128]

Exception in thread "main" java.lang.Error: Unresolved compilation problem:
Cannot cast from short to boolean

at Veeru.main(Veeru.java:7)

Conclusion: Error! We cant convert.

double to boolean

```
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         double a = 6;
7         boolean x= (boolean) a;
8         System.out.println(x);
9     }
10 }
```

Problems Javadoc Declaration Console

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 10:35:08 pm – 10:35:13 pm) [pid: 10204]

Exception in thread "main" java.lang.Error: Unresolved compilation problem:
Cannot cast from double to boolean

at Veeru.main(Veeru.java:7)

Conclusion: Error! We cant convert.

long to boolean

```
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         long a = 6;
7         boolean x= (boolean) a;
8         System.out.println(x);
9     }
10 }
```

Problems Javadoc Declaration Console

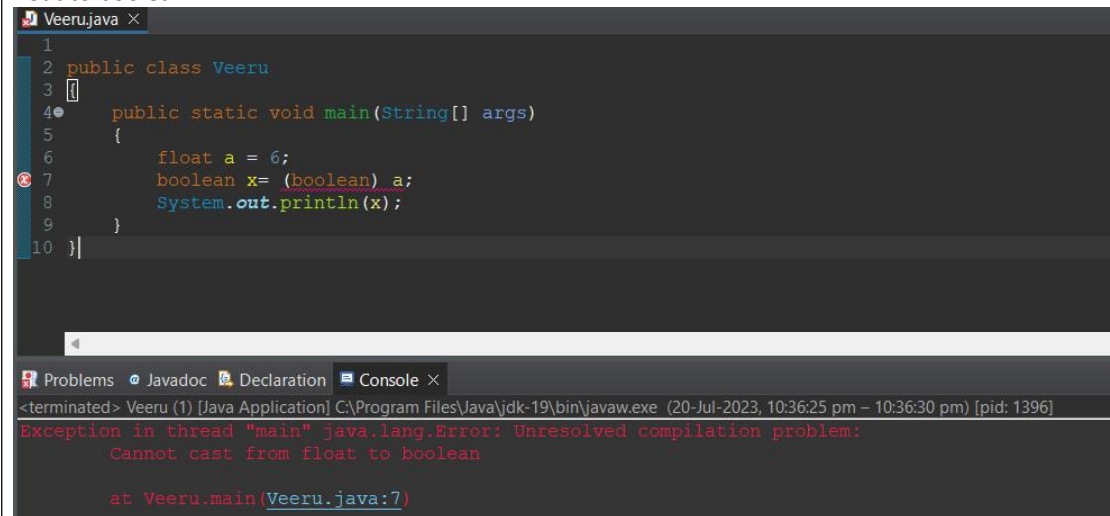
<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 10:35:53 pm – 10:35:58 pm) [pid: 1436]

Exception in thread "main" java.lang.Error: Unresolved compilation problem:
Cannot cast from long to boolean

at Veeru.main(Veeru.java:7)

Conclusion: Error! We cant convert.

float to boolean



```
1
2 public class Veeru
3 {
4     public static void main(String[] args)
5     {
6         float a = 6;
7         boolean x= (boolean) a;
8         System.out.println(x);
9     }
10 }
```

Problems Javadoc Declaration Console ×

<terminated> Veeru (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Jul-2023, 10:36:25 pm – 10:36:30 pm) [pid: 1396]

Exception in thread "main" java.lang.Error: Unresolved compilation problem:
Cannot cast from float to boolean

at Veeru.main(Veeru.java:7)

Conclusion: Error! We cant convert.

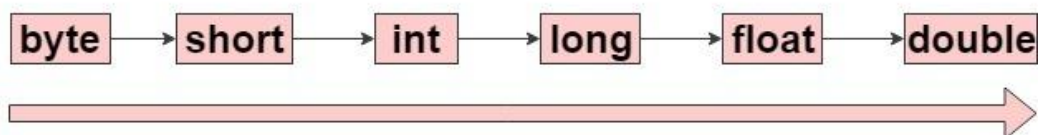
conversion	char	byte	short	int	long	float	double	boolean
Char	Ncr	✓ Ec	✓ EC	✓ EC	✓ EC	✓ EC	✓ EC	X
Byte	✓ Ec	Ncr	✓ lc	✓ lc	✓ lc	✓ lc	✓ lc	X
Short	✓ Ec	✓ Ec	ncr	✓ lc	✓ lc	✓ lc	✓ lc	X
Int	✓ Ec	✓ EC	✓ Ec	Ncr	✓ IC	✓ lc	✓ lc	X
long	✓ Ec	✓ Ec	✓ Ec	✓ EC	Ncr	✓ IC	✓ IC	X
Float	✓ Ec	✓ Ec	✓ Ec	✓ EC	✓ EC	Ncr	✓ IC	X
Double	✓ ec	✓ Ec	✓ Ec	✓ EC	✓ EC	✓ EC	ncr	X
boolean	X	X	X	X	X	X	X	ncr

Ncr= no casting required

EC=Explicit casting

IC= Implicit casting

Automatic Type Conversion (Widening - implicit)



Narrowing (explicit)

