

# YANATI RAJANIVAS

#### CONTACT

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#### SKILLS

- · Python, Java Basics
- · Html and Css
- Javascript
- Sql
- Database Fundamentals

#### EDUCATION

 Bachelor Of Technology (6.8 CGPA)
 NBKR Institute of Science and Technology 2019 - 2023
 Vidyanagar, Nellore Computer Science Engineering

· INTERMEDIATE (9.1 CGPA)

NBKR Science And Arts College 2017 - 2019 Vidyanagar,Nellore

S.S.C (8.2 CGPA)
 Z.P.P High School
 2016 - 2017
 Thikkavaram, Nellore

# LANGUAGES

EnglishTelugu



#### CAREER OBJECTIVE

Highly motivated and enthusiastic to move in software industry as a graduate seeking an opportunity to apply my knowledge, skills, and passion in a dynamic work environment. Eager to contribute to organization by utilizing my technical knowledge and gaining practical experience in work. Committed to continuous learning and growth, with a strong dedication to achieving professional excellence.

#### PROJECTS AND INTERNSHIPS

#### Projects

 Design Of secured Authenticated Key Management Protocol For Cloud computing Environments

Front End : HTML , CSS, Javascript Back End: JSP
Data base: MYSQL 5.0 Server: Apache Tomost

#### Internships

· Web Development using Html and Css

company: Think-Champ pvt.Ltd Duration: 1 Month

Project: Flower Shop Through online

Completed internship in machine learning with python

#### **ACHIEVEMENTS**

- √ Second place winner in district level drawing competition
- √ Won second prize in ball batmenton game under district level

#### STRENGTHS

- Research and Analysis
- Quick learner
- > Positivity and Adaptability
- ➤ Team Player

#### CERTIFICATIONS

- Python
- Html And Css
- Machine Learning
- Azure Al Fundamentals
- Database Administrator Fundamentals

# 1) Char to Char Datatype Conversion:

In Java, you don't need explicit type casting when converting a **char** to another **char**, as they are both of the same data type. A **char** represents a single 16-bit Unicode character, and it can be assigned to another **char** variable directly.

#### Result:

No conversion required for char to char.

#### 2) Char to Byte Datatype Conversion:

In Java, you can perform explicit type casting to convert a **char** to a **byte**. The **char** data type represents a 16-bit Unicode character, whereas the **byte** data type is an 8-bit signed integer.

Since a **char** requires 16 bits to store a character, and a **byte** can only store 8 bits, you need to be cautious when performing this type casting. If the **char** value being casted is outside the valid range of a **byte**, it may result in data loss or unexpected behavior.

#### Example:

```
| Bypecasjava | Doperatorjava | Domparejava | Domparejava
```

# Output:

Error Occurred and it may result in data loss because it is explicit type conversion.

#### 3)Char to Short Data Conversion:

In Java, It needs to perform explicit type casting to convert a **char** to a **short**. The **char** data type represents a 16-bit Unicode character, whereas the **short** data type is a 16-bit signed integer.

#### Example:

# Result:

It is done explicit type conversion both **char** and **short** are 16-bit data types in Java, so the type casting can be done directly without any loss of data or precision.

# 4) Char to Int Data conversion:

In Java, you can perform an implicit type conversion from **char** to **int** because **char** is a smaller data type than **int**. The **char** data type represents a 16-bit Unicode character, whereas the **int** data type is a 32-bit signed integer.

When converting a **char** to an **int**, the Unicode code point of the character is used as the integer value.

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```

#### 5) Char to Long Type Conversion:

In Java, you can perform an implicit type conversion from **char** to **long**. The **char** data type represents a 16-bit Unicode character, whereas the **long** data type is a 64-bit signed integer.

where data is converted from a smaller data type (char) to a larger data type (long) without any data loss.

#### Example

```
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```

#### 6) Char to Float conversion:

In Java, you can perform an implicit type conversion from **char** to **float**. The **char** data type represents a 16-bit Unicode character, whereas the **float** data type is a 32-bit single-precision floating-point number.

# Example:

```
Dypecastjava Doperatorjava Droblemljava Drob
```

#### 7) Char to Double conversion:

In Java, you can perform an explicit type conversion from **char** to **double**. The **char** data type represents a 16-bit Unicode character, whereas the **double** data type is a 64-bit double-precision floating-point number.

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#### 8) Char to Boolean conversion:

In Java, you cannot directly cast a **char** to a **boolean** because they are incompatible data types. The **char** data type represents a 16-bit Unicode character, whereas the **boolean** data type can only hold **true** or **false**.

f you want to convert a **char** value to a **boolean**, you need to define a condition or a rule to determine whether the **char** value should be treated as **true** or **false**.

Result:

None

Byte Type Conversions:

1) Byte to Char conversion:

In Java, converting a **byte** to a **char** involves explicit type casting because **byte** is an integral type, and **char** is a character data type.

# Example:

```
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D *ChartoShort.

D
```

# 2) Byte to byte conversion:

Converting a **byte** to another **byte** doesn't require any explicit type casting, as it's already the same data type.

#### Result:

No conversion required for char to char.

## 3) Byte to short conversion:

Converting a **byte** to a **short** involves implicit type conversion, as the **short** data type can safely hold the range of values that can be represented by a **byte**.

# 4) Byte to int conversion:

Converting a **byte** to an **int** involves implicit type conversion, as the **int** data type can safely hold the range of values that can be represented by a **byte**.

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```

# 5) Byte to Long conversion:

Converting a **byte** to a **long** involves implicit type conversion, as the **long** data type can safely hold the range of values that can be represented by a **byte**.

#### 6) Byte to Float Conversion:

Converting a **byte** to a **float** involves implicit type conversion, as the **float** data type can safely hold the range of values that can be represented by a **byte**.

Example:

# 7) Byte to Double conversion:

Converting a **Byte** wrapper object or a **byte** primitive to a **double** involves implicit type conversion, as the **double** data type can safely hold the range of values that can be represented by a **Byte** or **byte**.

Example:

.

# 8) Byte to Boolean conversion:

In Java, there is no direct conversion between **byte** and **boolean** data types. Converting a **byte** to a **boolean** cannot be done implicitly or explicitly through type casting, as they are not compatible types.

Result: None

#### 1)Short to Char conversion:

In Java, converting a **short** to a **char** involves explicit type casting because **short** is an integral data type, and **char** is a character data type.

#### Example:

# 2) Short to Byte conversion:

In Java, converting a **short** to a **byte** involves explicit type casting because **short** is a 16-bit integral data type, and **byte** is an 8-bit integral data type. Therefore, a narrowing conversion is required, and you need to explicitly cast the **short** value to a **byte**.

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```

#### 3) Short to Short conversion:

Converting a **short** to another **short** doesn't require any explicit type casting, as it's already the same data type. It is essentially an identity conversion, meaning the value remains the same.

Result: None

#### 4) Short to int conversion:

Converting a **short** to an **int** involves implicit type conversion, as the **int** data type can safely hold the range of values that can be represented by a **short**.

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```

#### 5) Short to Long conversion:

In Java, converting a **short** to an **int** or a **long** involves implicit type conversion, as both **int** and **long** data types can safely hold the range of values that can be represented by a **short**.

#### 6) Short to float conversion:

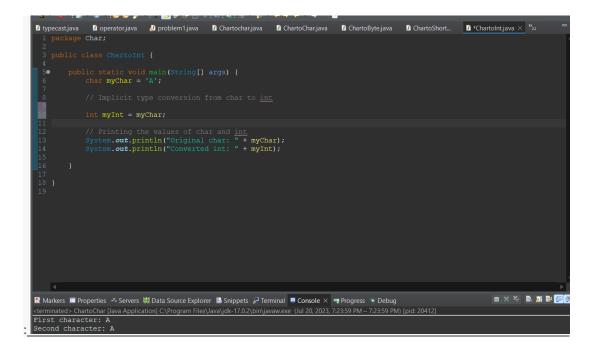
In Java, converting a **short** to a **float** involves implicit type conversion, as the **float** data type can safely hold the range of values that can be represented by a **short**.

Example:

```
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```

# 7) Short to Double conversion:

In Java, converting a **short** to a **double** involves implicit type conversion, as the **double** data type can safely hold the range of values that can be represented by a **short**.



# 8) Short to boolean conversion:

n Java, there is no direct conversion between **short** and **boolean** data types. Converting a **short** to a **boolean** cannot be done implicitly or explicitly through type casting, as they are not compatible types.

Result: None

#### 1) Int to Char conversion in java:

In Java, converting an **int** to a **char** involves explicit type casting because **int** is an integral data type, and **char** is a character data type.

Example:

#### 2) Int to Byte conversion:

In Java, converting an **int** to a **byte** involves explicit type casting because **int** is a 32-bit integral data type, and **byte** is an 8-bit integral data type. Therefore, a narrowing conversion is required, and you need to explicitly cast the **int** value to a **byte**.

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```

#### 3) Int to Short conversion:

In Java, converting an **int** to a **short** involves explicit type casting because **int** is a 32-bit integral data type, and **short** is a 16-bit integral data type. Therefore, a narrowing conversion is required, and you need to explicitly cast the **int** value to a **short**.

#### 4)Int to Int conversion:

It seems there might be a typo in your question. If you meant "int to int" conversion in Java, then that would be a simple identity conversion where no explicit type casting is required, as **int** is already an **int**.

Result: Not required

# 5) Int to Long conversion:

In Java, converting an **int** to a **long** involves implicit type conversion, as the **long** data type can safely hold the range of values that can be represented by an **int**.

Example:

## 6) Int to Float conversion:

In Java, converting an **int** to a **float** involves implicit type conversion, as the **float** data type can safely hold the range of values that can be represented by an **int**.

#### 7)Int to Double conversion:

In Java, converting an **int** to a **double** involves implicit type conversion, as the **double** data type can safely hold the range of values that can be represented by an **int**.

#### 8) Int to Boolean conversion:

In Java, there is no direct conversion between int and boolean data types. Converting an int to a boolean cannot be done implicitly or explicitly through type casting, as they are not compatible types.

Result: No conversion

# 1) Long to char explicit:

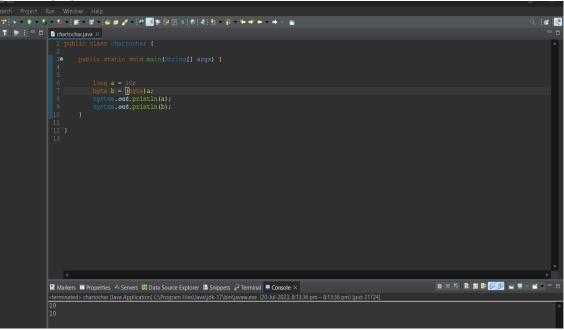
In Java, you can convert a **long** data type to a **char** data type using type casting or by converting the **long** to a **String** first and then getting the **char** from the **String**. Let's see both methods:

#### Example:

#### 2) Long to byte explicit:

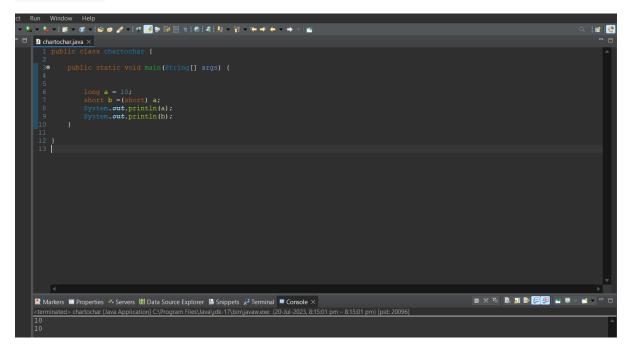
In Java, you can convert a **long** data type to a **byte** data type using type casting. However, be aware that a **long** value may not always fit into a **byte**, as **long** can store much larger values than **byte**. If the **long** value is outside the valid range of a **byte**, data loss may occur. To avoid potential data loss, you should

perform proper validation before the conversion.



# 3) Long to short explicit:

In Java, you can convert a **long** data type to a **short** data type using type casting. However, similar to the previous example, you need to be cautious about potential data loss since a **long** can store larger values than a **short**. You should ensure that the **long** value is within the valid range of a **short** before performing the conversion.



#### 4) Long to int explicit:

In Java, you can convert a **long** data type to an **int** data type using type casting. However, similar to previous examples, you should be careful about potential data loss since a **long** can store larger values than an **int**. You need to ensure that the **long** value is within the valid range of an **int** before performing the conversion.

Example:

# 5) Long to float implicit:

In Java, you can convert a **long** data type to a **float** data type using type casting. However, you should be aware that type casting from **long** to **float** may result in a loss of precision since **float** is a single-precision 32-bit floating-point data type, whereas **long** is a 64-bit integer data type.

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```

#### 6) Long to double implicit:

In Java, you can convert a **long** data type to a **double** data type using type casting. Converting **long** to **double** does not result in any loss of precision, as **double** is a double-precision 64-bit floating-point data type that can accurately represent a wider range of values, including integers and fractions.

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| public class chartechar {

| public static void main(String[] args) {

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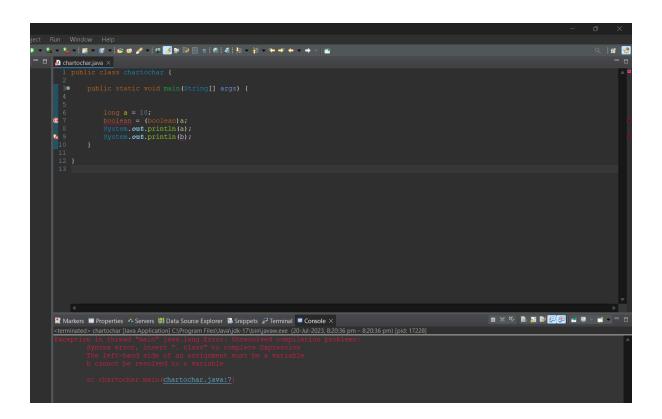
| doubte b = a; | public static void main(String[] args) {

| doubte b = a; | pub
```

#### 7) Long to Boolean:

In Java, you cannot directly convert a **long** data type to a **boolean** data type using type casting, as there is no direct numeric representation of **true** or **false** in a **long**.

If you want to convert a **long** to a **boolean**, you'll need to define a condition based on your specific use case. For example, you can set a rule such that any non-zero value of **long** will be considered **true**, and **false** otherwise.



# 1)Float to char explicit:

In Java, you cannot directly convert a **float** data type to a **char** data type using type casting, as there is no direct numeric representation of characters in a **float**.

To convert a **float** to a **char**, you can convert the **float** to an integer or a **String** first and then extract the character representation from the integer or the first character of the **String**.

#### 2) Float to byte explicit:

In Java, you can convert a **float** data type to a **byte** data type using type casting. However, be aware that converting a **float** to a **byte** may result in a loss of precision, as **byte** is an 8-bit signed integer data type, and **float** is a 32-bit floating-point data type.

#### 3) Float to short explicit:

In Java, you can convert a **float** data type to a **short** data type using type casting. However, similar to previous examples, be aware that converting a **float** to a **short** may result in a loss of precision, as **short** is a 16-bit signed integer data type, and **float** is a 32-bit floating-point data type.

#### Example:

#### 4) Float to int explicit:

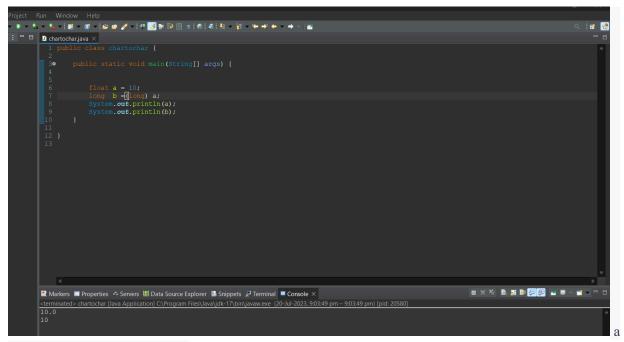
In Java, you can convert a **float** data type to an **int** data type using type casting. However, be aware that converting a **float** to an **int** may result in a loss of precision, as **int** is a 32-bit signed integer data type, and **float** is a 32-bit floating-point data type.

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terminated * chartochar [lava Application] (*)Program Files/Java/jdk-17/bin/javaw.exe (20-Jul-2023, 90149 pm - 90149 pm) [pid: 1748]
```

# 5) Float to long explicit:

In Java, you can convert a **float** data type to a **long** data type using type casting. However, be aware that converting a **float** to a **long** may result in a loss of precision, as **long** is a 64-bit integer data type, and **float** is



32-bit floating-point data type.

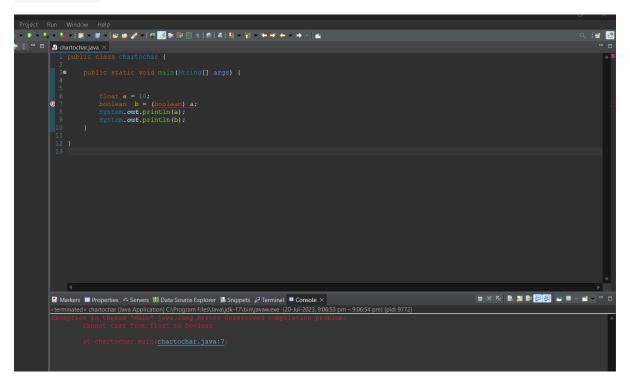
#### 6) Float to double implicit:

In Java, you can convert a **float** data type to a **double** data type without any explicit type casting. This is because **double** is a higher precision floating-point data type than **float**, and Java allows implicit widening conversions from **float** to **double**.

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```

# 7) Float to Boolean explicit:

In Java, there is no direct conversion from a **float** data type to a **boolean** data type. **boolean** can only represent two values: **true** or **false**. A **float** is a numeric data type and cannot be directly converted to a boolean value.



# 1)Double to char explicit:

In Java, you can convert a **double** data type to a **char** data type by first converting the **double** to an integer and then converting the integer to a **char**. This approach assumes that the **doubl** value represents a valid Unicode value for the **char**.

#### Example:

```
Run Window Help

District of the static void main (String[] args) {

double a = 10;

char b = || harjoar;

system.out.println(a);

system.out.println(b);

11

12 }

R Markers Properties * Servers M Data Source Explorer M Snippets & Terminal Corsole ×

terminated- chartchar [Java Application] C\Program Files\Java\Jok.717\bin\Javaweee (20-Jul-2023, 920-47 pm) [pid: 14708]
```

# 2) Double to byte explicit:

In Java, you can convert a **double** data type to a **byte** data type using type casting. However, be aware that converting a **double** to a **byte** may result in a loss of precision, as **byte** is an 8-bit signed integer data type, and **double** is a 64-bit floating-point data type.

```
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```

# 3) Double to short explicit:

In Java, you can convert a **double** data type to a **short** data type using type casting. However, be aware that converting a **double** to a **short** may result in a loss of precision, as **short** is a 16-bit signed integer data type, and **double** is a 64-bit floating-point data type.

#### 4) Double to int explicit:

In Java, you can convert a **double** data type to an **int** data type using type casting. However, be aware that converting a **double** to an **int** may result in a loss of precision, as **int** is a 32-bit signed integer data type, and **double** is a 64-bit floating-point data type.

#### Example:

#### 5) Double to long explicit:

In Java, you can convert a **double** data type to a **long** data type using type casting. However, be aware that converting a **double** to a **long** may result in a loss of precision, as **long** is a 64-bit integer data type, and **double** is a 64-bit floating-point data type.

```
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cterminated - chartochar [Java Application] Ct/Program files/Java/ydk-17/bin/javawaee (20-Jul-2021, 92728 pm - 92728 pm) [pid 29788]
```

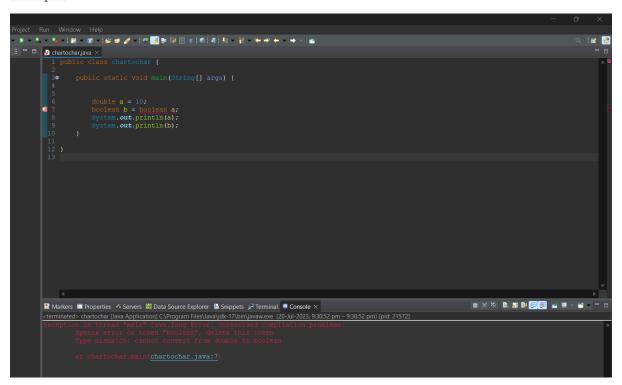
# 6) Double to float explicit:

In Java, you can convert a **double** data type to a **float** data type using type casting. This conversion is called narrowing conversion, and you may lose precision when converting from **double** to **float**, as **double** is a 64-bit floating-point data type and **float** is a 32-bit floating-point data type.

#### 7) Double to Boolean explicit:

In Java, you cannot directly convert a **double** data type to a **boolean** data type using type casting, as there is no direct numeric representation of **true** or **false** in a **double**.

#### Example:



- 1) Boolean to char explicit, 2) 1) Boolean to short explicit, 3) Boolean to int explicit,
- 4) Boolean to long explicit, 5) Boolean to float explicit, 6) Boolean to double explicit,

# 7) Boolean to byte explicit,

In Java, you cannot directly convert a **boolean** data type to a **any** data type using type casting, as there is no direct numeric representation of **true** or **false** in a any datatype.

# Table for all datatype conversions

|        | byte | short | char | int  | long | float | double |
|--------|------|-------|------|------|------|-------|--------|
| byte   |      | expl  | expl | expl | expl | expl  | expl   |
| short  | impl |       | expl | expl | expl | expl  | expl   |
| char   | expl | expl  | W    | expl | expl | expl  | expl   |
| int    | impl | impl  | impl |      | expl | expl  | expl   |
| long   | impl | impl  | impl | impl |      | expl  | expl   |
| float  | impl | impl  | impl | impl | impl |       | expl   |
| double | impl | impl  | impl | impl | impl | impl  | a 850  |

# **Datatype conversion graph**

# Automatic Type Conversion (Widening - implicit)

