

## **Kavya N**

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### **CAREER OBJECTIVE:**

To ensure challenging position in a growing organizations where I would be able utilize all my capabilities to the best extend and in the process add value to the organization and my career.

### **Educational Qualification:**

- BE Information Science Engineering in 2023 from Sri Siddhartha Institute of Technology, Tumkur with CGPA 6.47.
- Diploma Computer Science and Engineering in 2020 from Government Polytechnic Tumkur with 69.77%.
- 10<sup>th</sup> Class in 2017 from Sarvodaya English Medium High School, P R Pura with 82.72%.

### **Technical Skills:**

- C Programming
- Basic Python
- HTML, CSS, XML
- Basic java
- SQL server [Database]

### **College Project:**

- In Diploma, the major project was Speech to Text and Text to Speech Recognition System.
- In BE, the mini project was Hotel Management System, Parkinson's diseases using ML.
- In BE, the major project was Blockchain based Secure Supply Chain Management.

### **Skills:**

- Communication
- Creativity
- Innovation
- Enthusiasm
- Attention to Detail

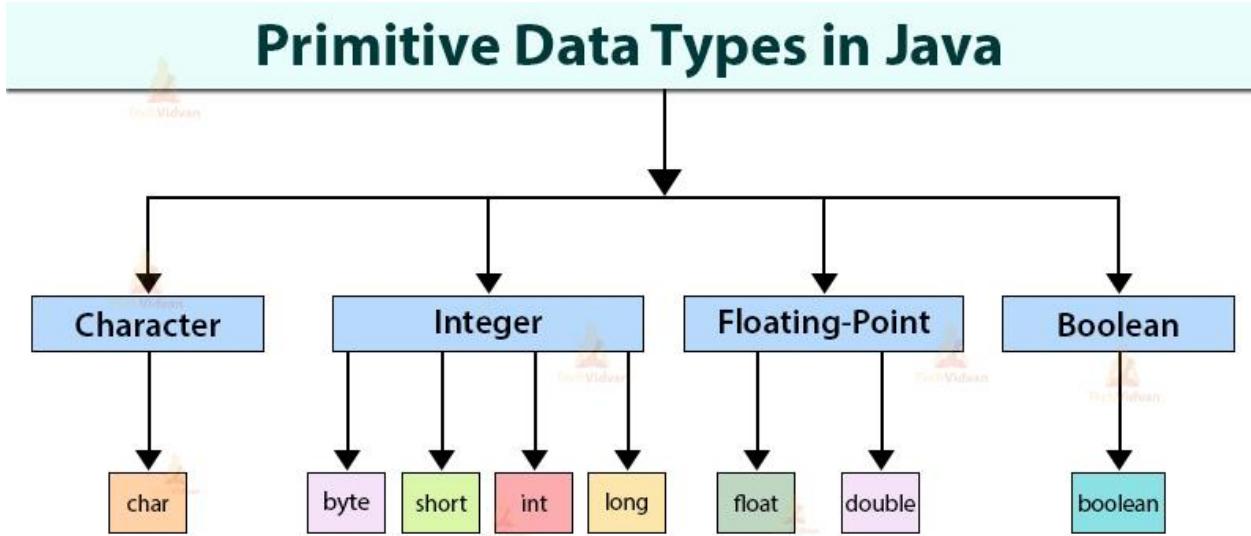
### **Declaration:**

I hereby confirm that all the above furnished information is true to the best of my knowledge and belief.

## Assignment-4

20/07/2023

In Java, the primitive data types are the predefined data types of Java. They specify the size and type of any standard values.



**Table:** Flow chart of primitive data type

Now, we need to discuss about the all primitive data types by comparision its really risking tasks but need to complete within in 11:59PM.



Come on let's start now, its already time up

## char to char

We can't do any type of conversion from char to char.

## Char to byte

The screenshot shows the Eclipse IDE interface with a Java project named "SecondProject". The "Assignment4.java" file is open in the editor. The code is as follows:

```
1 public class Assignment4 {
2     public static void main(String[] args) {
3         char x='$';
4         byte y;
5         y=(byte)x;
6         System.out.println(x);
7         System.out.println(y);
8     }
9 }
10
```

In the "Console" tab, the output is:

```
36
```

**Conclusion:** Here we are doing the Explicit type casting.

## Char to short

The screenshot shows the Eclipse IDE interface with a Java project named "SecondProject". The "Assignment4.java" file is open in the editor. The code is as follows:

```
1 public class Assignment4 {
2     public static void main(String[] args) {
3         char x='$';
4         short y;
5         y=(short)x;
6         System.out.println(x);
7         System.out.println(y);
8     }
9 }
10
```

In the "Console" tab, the output is:

```
36
```

**Conclusion:** Here we are doing the Explicit type casting.

## Char to int

The screenshot shows the Eclipse IDE interface with the title bar "eclipse-workspace - SecondProject/src/Assignment4.java - Eclipse IDE". The left sidebar is the "Package Explorer" showing two projects: "FirstProject" and "SecondProject". The main editor window displays the following Java code:

```
1 public class Assignment4 {
2     public static void main(String[] args) {
3         char x='5';
4         int y;
5         y=(int)x;
6         System.out.println(x);
7         System.out.println(y);
8     }
9 }
10
```

The "Console" tab at the bottom shows the output of the program:

```
<terminated> Assignment4 [Java Application] C:\Program Files\Java\dk-17\bin\javaw.exe (Jul 20, 2023, 8:33:24 PM – 8:33:25 PM) [pid: 12044]
5
53
```

**Conclusion:** Here we are doing Implicit type casting.

## Char to long

The screenshot shows the Eclipse IDE interface with the title bar "eclipse-workspace - SecondProject/src/Assignment4.java - Eclipse IDE". The left sidebar is the "Package Explorer" showing two projects: "FirstProject" and "SecondProject". The main editor window displays the following Java code:

```
1 public class Assignment4 {
2     public static void main(String[] args) {
3         char x='9';
4         long y;
5         y=x;
6         System.out.println(x);
7         System.out.println(y);
8     }
9 }
10
```

The "Console" tab at the bottom shows the output of the program:

```
<terminated> Assignment4 [Java Application] C:\Program Files\Java\dk-17\bin\javaw.exe (Jul 20, 2023, 8:35:53 PM – 8:35:53 PM) [pid: 15116]
9
57
```

**Conclusion:** Here we are doing Implicit type casting.

## Char to float

The screenshot shows the Eclipse IDE interface. In the top-left corner, the title bar reads "eclipse-workspace - SecondProject/src/Assignment4.java - Eclipse IDE". The left sidebar is the "Package Explorer" showing a project structure with "FirstProject", "SecondProject", and "src" containing "Assignment4.java". The main editor window displays the following Java code:

```
1 public class Assignment4 {
2     public static void main(String[] args) {
3         char a=10;
4         float b;
5         b=a;
6         System.out.println(a);
7         System.out.println(b);
8     }
9 }
```

Below the editor is the "Console" window, which shows the output of the program execution:

```
10.0
```

The system tray at the bottom indicates it's 8:02 PM on 7/20/2023.

**Conclusion:** Here we are doing Implicit type casting.

## Char to double

The screenshot shows the Eclipse IDE interface. In the top-left corner, the title bar reads "eclipse-workspace - SecondProject/src/Assignment4.java - Eclipse IDE". The left sidebar is the "Package Explorer" showing a project structure with "FirstProject", "SecondProject", and "src" containing "Assignment4.java". The main editor window displays the following Java code:

```
1 public class Assignment4 {
2     public static void main(String[] args) {
3         char a=10;
4         double b;
5         b=a;
6         System.out.println(a);
7         System.out.println(b);
8     }
9 }
```

Below the editor is the "Console" window, which shows the output of the program execution:

```
10.0
```

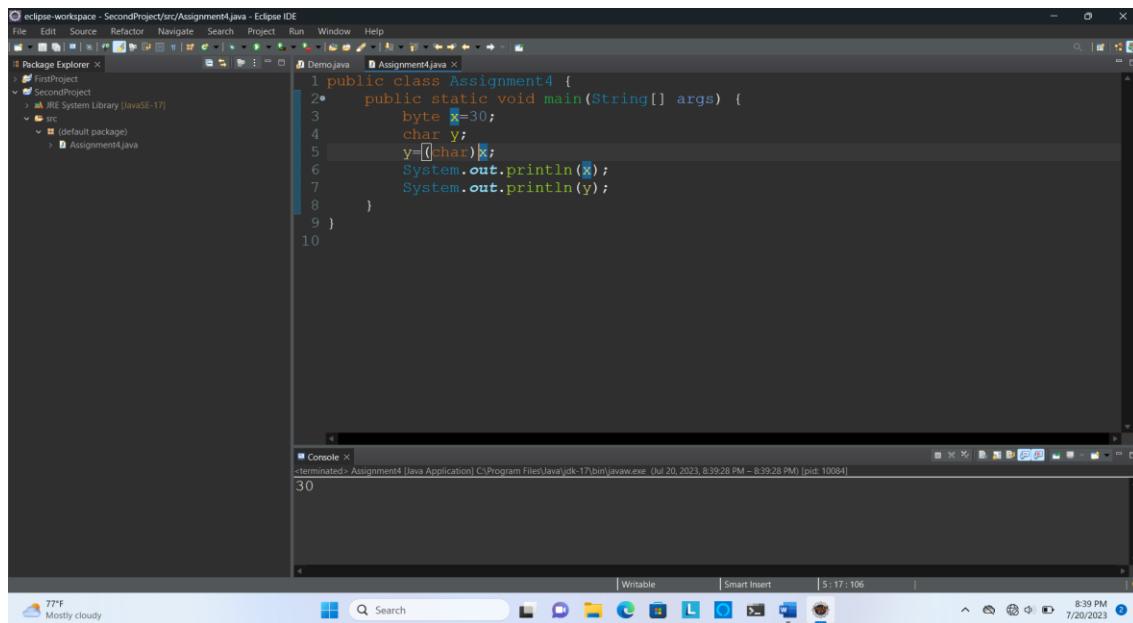
The system tray at the bottom indicates it's 8:04 PM on 7/20/2023.

**Conclusion:** Here we are doing Implicit type casting.

## Char to Boolean

We can not convert either to Implicit or Explicit.

## Byte to char



The screenshot shows the Eclipse IDE interface with the following details:

- Project Explorer:** Shows a project named "SecondProject" with a package "src" containing "Assignment4.java".
- Code Editor:** Displays the following Java code:

```
1 public class Assignment4 {
2     public static void main(String[] args) {
3         byte x=30;
4         char y;
5         y=(char)x;
6         System.out.println(x);
7         System.out.println(y);
8     }
9 }
```
- Console:** Shows the output of the program:

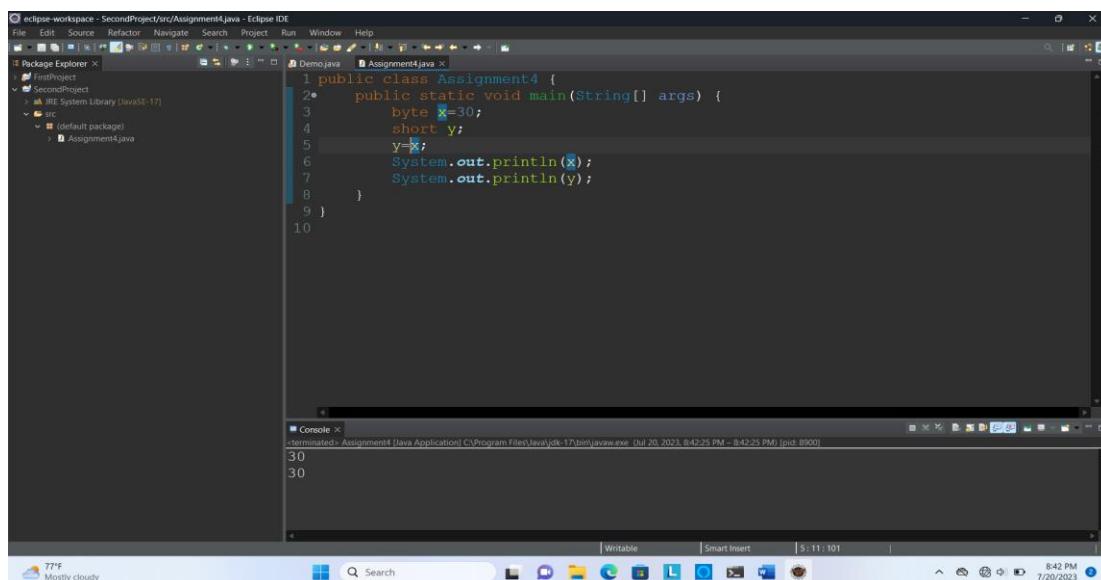
```
30
```
- System Tray:** Shows the weather as "77°F Mostly cloudy".
- Taskbar:** Shows various application icons and the system clock at "8:39 PM 7/20/2023".

**Conclusion:** Here we are doing Explicit type casting.

## Byte to byte

We can't do any type of conversion from byte to byte.

## Byte to short



The screenshot shows the Eclipse IDE interface with the following details:

- Project Explorer:** Shows a project named "SecondProject" with a package "src" containing "Assignment4.java".
- Code Editor:** Displays the following Java code:

```
1 public class Assignment4 {
2     public static void main(String[] args) {
3         byte x=30;
4         short y;
5         y=x;
6         System.out.println(x);
7         System.out.println(y);
8     }
9 }
```
- Console:** Shows the output of the program:

```
30
30
```
- System Tray:** Shows the weather as "77°F Mostly cloudy".
- Taskbar:** Shows various application icons and the system clock at "8:42 PM 7/20/2023".

**Conclusion:** Here we are doing Implicit type casting.

## Byte to int

The screenshot shows the Eclipse IDE interface. The Package Explorer view on the left lists two projects: FirstProject and SecondProject. The src folder under SecondProject contains an Assignment4.java file. The code in Assignment4.java is:

```
1 public class Assignment4 {
2     public static void main(String[] args) {
3         byte x=40;
4         int y;
5         y=x;
6         System.out.println(x);
7         System.out.println(y);
8     }
9 }
```

The Console view at the bottom shows the output of the program:

```
40
40
```

The system tray at the bottom left indicates it's 77°F and mostly cloudy. The taskbar at the bottom shows various application icons.

**Conclusion:** Here we are doing Implicit type casting.

## Byte to long

The screenshot shows the Eclipse IDE interface. The Package Explorer view on the left lists two projects: FirstProject and SecondProject. The src folder under SecondProject contains an Assignment4.java file. The code in Assignment4.java is:

```
1 public class Assignment4 {
2     public static void main(String[] args) {
3         byte x=40;
4         long y;
5         y=x;
6         System.out.println(x);
7         System.out.println(y);
8     }
9 }
```

The Console view at the bottom shows the output of the program:

```
40
40
```

The system tray at the bottom left indicates it's 77°F and mostly cloudy. The taskbar at the bottom shows various application icons.

**Conclusion:** Here we are doing Implicit type casting.

## byte to float

The screenshot shows the Eclipse IDE interface with a Java project named "SecondProject". The code editor displays the following Java code:

```
1 public class Assignment4 {
2     public static void main(String[] args) {
3         byte x=40;
4         float y;
5         y=x;
6         System.out.println(x);
7         System.out.println(y);
8     }
9 }
```

The console output shows the results of the program execution:

```
40
40
```

The system tray indicates it's 8:54 PM on 7/20/2023.

**Conclusion:** Here we are doing Implicit type casting.

## byte to double

The screenshot shows the Eclipse IDE interface with a Java project named "SecondProject". The code editor displays the following Java code:

```
1 public class Assignment4 {
2     public static void main(String[] args) {
3         byte x=40;
4         double y;
5         y=x;
6         System.out.println(x);
7         System.out.println(y);
8     }
9 }
```

The console output shows the results of the program execution:

```
40
40.0
```

The system tray indicates it's 8:55 PM on 7/20/2023.

**Conclusion:** Here we are doing Implicit type casting.

## byte to Boolean

We can not convert either to Implicit or Explicit.

## short to char

The screenshot shows the Eclipse IDE interface. The Package Explorer view on the left lists two projects: FirstProject and SecondProject. The SecondProject's src folder contains an Assignment4.java file. The code in Assignment4.java is:

```
1 public class Assignment4 {  
2     public static void main(String[] args) {  
3         short x=10;  
4         char y;  
5         y=(char)x;  
6         System.out.println(x);  
7         System.out.println(y);  
8     }  
9 }  
10
```

The Console view at the bottom shows the output of the program:

```
10  
10
```

The status bar at the bottom right indicates the date and time as 7/20/2023 9:01 PM.

**Conclusion:** Here we are doing Explicit type casting.

## Short to byte

The screenshot shows the Eclipse IDE interface. The Package Explorer view on the left lists two projects: FirstProject and SecondProject. The SecondProject's src folder contains an Assignment4.java file. The code in Assignment4.java is:

```
1 public class Assignment4 {  
2     public static void main(String[] args) {  
3         short x=10;  
4         byte y;  
5         y=(byte)x;  
6         System.out.println(x);  
7         System.out.println(y);  
8     }  
9 }  
10
```

The Console view at the bottom shows the output of the program:

```
10  
10
```

The status bar at the bottom right indicates the date and time as 7/20/2023 9:25 PM.

**Conclusion:** Here we are doing Explicit type casting.

## short to short

We can't do any type of conversion from short to short.

## short to int

The screenshot shows the Eclipse IDE interface. The Package Explorer view on the left lists two projects: FirstProject and SecondProject. The src folder under SecondProject contains an Assignment4.java file. The code in Assignment4.java is:

```
1 public class Assignment4 {
2     public static void main(String[] args) {
3         short x=10;
4         int y;
5         y=x;
6         System.out.println(x);
7         System.out.println(y);
8     }
9 }
10
```

The Console view at the bottom shows the output of the program:

```
10
10
```

The system tray at the bottom of the screen indicates it's 77°F and mostly cloudy.

**Conclusion:** Here we are doing Implicit type casting.

## short to long

The screenshot shows the Eclipse IDE interface. The Package Explorer view on the left lists two projects: FirstProject and SecondProject. The src folder under SecondProject contains an Assignment4.java file. The code in Assignment4.java is:

```
1 public class Assignment4 {
2     public static void main(String[] args) {
3         short x=10;
4         long y;
5         y=x;
6         System.out.println(x);
7         System.out.println(y);
8     }
9 }
10
```

The Console view at the bottom shows the output of the program:

```
10
10
```

The system tray at the bottom of the screen indicates it's 77°F and mostly cloudy.

**Conclusion:** Here we are doing Implicit type casting.

## **Short to float**

The screenshot shows the Eclipse IDE interface. The Package Explorer view on the left lists two projects: FirstProject and SecondProject. The src folder under SecondProject contains Assignment4.java. The code in Assignment4.java is:

```
1 public class Assignment4 {  
2     public static void main(String[] args) {  
3         short x=10;  
4         float y;  
5         y=x;  
6         System.out.println(x);  
7         System.out.println(y);  
8     }  
9 }  
10
```

The Console view at the bottom shows the output of the program:

```
10  
10.0
```

The system tray at the bottom of the screen indicates it's 7:34 PM on July 20, 2023, with a weather forecast of 77°F Mostly cloudy.

**Conclusion:** Here we are doing Implicit type casting.

## **short to double**

The screenshot shows the Eclipse IDE interface. The Package Explorer view on the left lists two projects: FirstProject and SecondProject. The src folder under SecondProject contains Assignment4.java. The code in Assignment4.java is:

```
1 public class Assignment4 {  
2     public static void main(String[] args) {  
3         short x=10;  
4         double y;  
5         y=x;  
6         System.out.println(x);  
7         System.out.println(y);  
8     }  
9 }  
10
```

The Console view at the bottom shows the output of the program:

```
10  
10.0
```

The system tray at the bottom of the screen indicates it's 9:36 PM on July 20, 2023, with a weather forecast of 77°F Mostly cloudy.

**Conclusion:** Here we are doing Implicit type casting.

## **short to Boolean**

We can not convert either to Implicit or Explicit.

## int to char

The screenshot shows the Eclipse IDE interface. The Package Explorer view on the left displays two projects: FirstProject and SecondProject. The src folder under SecondProject contains an Assignment4.java file. The code in Assignment4.java is:

```
1 public class Assignment4 {  
2     public static void main(String[] args) {  
3         int x=10;  
4         char y;  
5         y=(char)x;  
6         System.out.println(x);  
7         System.out.println(y);  
8     }  
9 }  
10
```

The Console view at the bottom shows the output of the program:

```
10  
10
```

The system tray at the bottom of the screen indicates it's 7:20 PM on July 20, 2023, with a weather forecast of 77°F mostly cloudy.

**Conclusion:** Here we are doing Explicit type casting.

## int to byte

The screenshot shows the Eclipse IDE interface. The Package Explorer view on the left displays two projects: FirstProject and SecondProject. The src folder under SecondProject contains an Assignment4.java file. The code in Assignment4.java is:

```
1 public class Assignment4 {  
2     public static void main(String[] args) {  
3         int x=10;  
4         byte y;  
5         y=(byte)x;  
6         System.out.println(x);  
7         System.out.println(y);  
8     }  
9 }  
10
```

The Console view at the bottom shows the output of the program:

```
10  
10
```

The system tray at the bottom of the screen indicates it's 7:20 PM on July 20, 2023, with a weather forecast of 77°F mostly cloudy.

**Conclusion:** Here we are doing Explicit type casting.

## **Int to short**

The screenshot shows the Eclipse IDE interface. The Package Explorer view on the left lists two projects: FirstProject and SecondProject. The src folder under SecondProject contains an Assignment4.java file. The code in Assignment4.java is:

```
1 public class Assignment4 {  
2     public static void main(String[] args) {  
3         int x=30;  
4         short y;  
5         y=(short)x;  
6         System.out.println(x);  
7         System.out.println(y);  
8     }  
9 }  
10
```

The Console view at the bottom shows the output of the program:

```
30  
30
```

The system tray at the bottom right indicates it's 7:20 PM on July 20, 2023.

**Conclusion:** Here we are doing Explicit type casting.

### **int to int**

We can't do any type of conversion from int to int.

### **int to long**

The screenshot shows the Eclipse IDE interface. The Package Explorer view on the left lists two projects: FirstProject and SecondProject. The src folder under SecondProject contains an Assignment4.java file. The code in Assignment4.java is:

```
1 public class Assignment4 {  
2     public static void main(String[] args) {  
3         int x=30;  
4         long y;  
5         y=x;  
6         System.out.println(x);  
7         System.out.println(y);  
8     }  
9 }  
10
```

The Console view at the bottom shows the output of the program:

```
30  
30
```

The system tray at the bottom right indicates it's 7:20 PM on July 20, 2023.

**Conclusion:** Here we are doing Implicit type casting.

## int to float

The screenshot shows the Eclipse IDE interface. The Package Explorer view on the left lists two projects: 'FirstProject' and 'SecondProject'. The 'SecondProject' under 'SecondProject' has a 'src' folder containing an 'Assignment4.java' file. The code editor window displays the following Java code:

```
1 public class Assignment4 {
2     public static void main(String[] args) {
3         int x=70;
4         float y;
5         y=x;
6         System.out.println(x);
7         System.out.println(y);
8     }
9 }
10
```

Below the code editor is the Console view, which shows the output of the program execution:

```
70
70.0
```

The system tray at the bottom indicates it's 7:16 PM on July 20, 2023, with a weather forecast of 77°F mostly cloudy.

**Conclusion:** Here we are doing Implicit type casting.

## int to double

The screenshot shows the Eclipse IDE interface. The Package Explorer view on the left lists two projects: 'FirstProject' and 'SecondProject'. The 'SecondProject' under 'SecondProject' has a 'src' folder containing an 'Assignment4.java' file. The code editor window displays the following Java code:

```
1 public class Assignment4 {
2     public static void main(String[] args) {
3         int x=70;
4         double y;
5         y=x;
6         System.out.println(x);
7         System.out.println(y);
8     }
9 }
10
```

Below the code editor is the Console view, which shows the output of the program execution:

```
70
70.0
```

The system tray at the bottom indicates it's 9:15 PM on July 20, 2023, with a weather forecast of 77°F mostly cloudy.

**Conclusion:** Here we are doing Implicit type casting.

## int to Boolean

We can not convert either to Implicit or Explicit.

## long to char

The screenshot shows the Eclipse IDE interface. The Package Explorer view on the left lists two projects: FirstProject and SecondProject. The SecondProject folder contains a src folder which holds an Assignment4.java file. The code in Assignment4.java is:

```
1 public class Assignment4 {  
2     public static void main(String[] args) {  
3         long x=60;  
4         char y;  
5         y=(char)x;  
6         System.out.println(x);  
7         System.out.println(y);  
8     }  
9 }  
10
```

The Console view at the bottom shows the output of the program:

```
60  
<
```

**Conclusion:** Here we are doing Explicit type casting.

long to byte

The screenshot shows the Eclipse IDE interface. The Package Explorer view on the left lists two projects: FirstProject and SecondProject. The SecondProject folder contains a src folder which holds an Assignment4.java file. The code in Assignment4.java is:

```
1 public class Assignment4 {  
2     public static void main(String[] args) {  
3         long x=50;  
4         byte y;  
5         y=(byte)x;  
6         System.out.println(x);  
7         System.out.println(y);  
8     }  
9 }  
10
```

The Console view at the bottom shows the output of the program:

```
50  
50
```

**Conclusion:** Here we are doing Explicit type casting.

## **long to short**

The screenshot shows the Eclipse IDE interface. In the top menu bar, the title is "eclipse-workspace - SecondProject/src/Assignment4.java - Eclipse IDE". The left sidebar shows a "Package Explorer" with projects "FirstProject" and "SecondProject". The "src" folder under "SecondProject" contains "Assignment4.java". The main editor window displays the following Java code:

```
1 public class Assignment4 {  
2     public static void main(String[] args) {  
3         long x=50;  
4         short y;  
5         y=(short)x;  
6         System.out.println(x);  
7         System.out.println(y);  
8     }  
9 }  
10
```

The "Console" tab at the bottom shows the output of the program:

```
<terminated> Assignment4 [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (Jul 20, 2023, 10:04:33 PM – 10:04:34 PM) [pid: 3672]  
50  
50
```

The system tray at the bottom indicates it's 10:04 PM on 7/20/2023.

**Conclusion:** Here we are doing Explicit type casting.

long to int

The screenshot shows the Eclipse IDE interface. In the top menu bar, the title is "eclipse-workspace - SecondProject/src/Assignment4.java - Eclipse IDE". The left sidebar shows a "Package Explorer" with projects "FirstProject" and "SecondProject". The "src" folder under "SecondProject" contains "Assignment4.java". The main editor window displays the following Java code:

```
1 public class Assignment4 {  
2     public static void main(String[] args) {  
3         long x=80;  
4         int y;  
5         y=(int)x;  
6         System.out.println(x);  
7         System.out.println(y);  
8     }  
9 }  
10
```

The "Console" tab at the bottom shows the output of the program:

```
<terminated> Assignment4 [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (Jul 20, 2023, 10:07:09 PM – 10:07:09 PM) [pid: 18728]  
80  
80
```

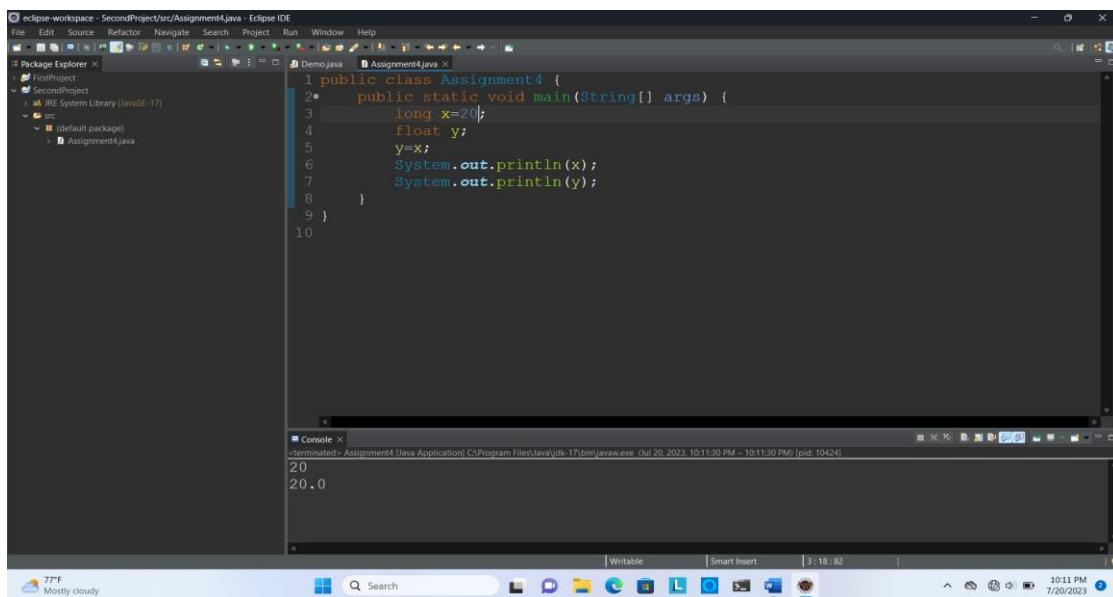
The system tray at the bottom indicates it's 10:07 PM on 7/20/2023.

**Conclusion:** Here we are doing Explicit type casting.

## long to long

We can't do any type of conversion from long to long.

## long to float



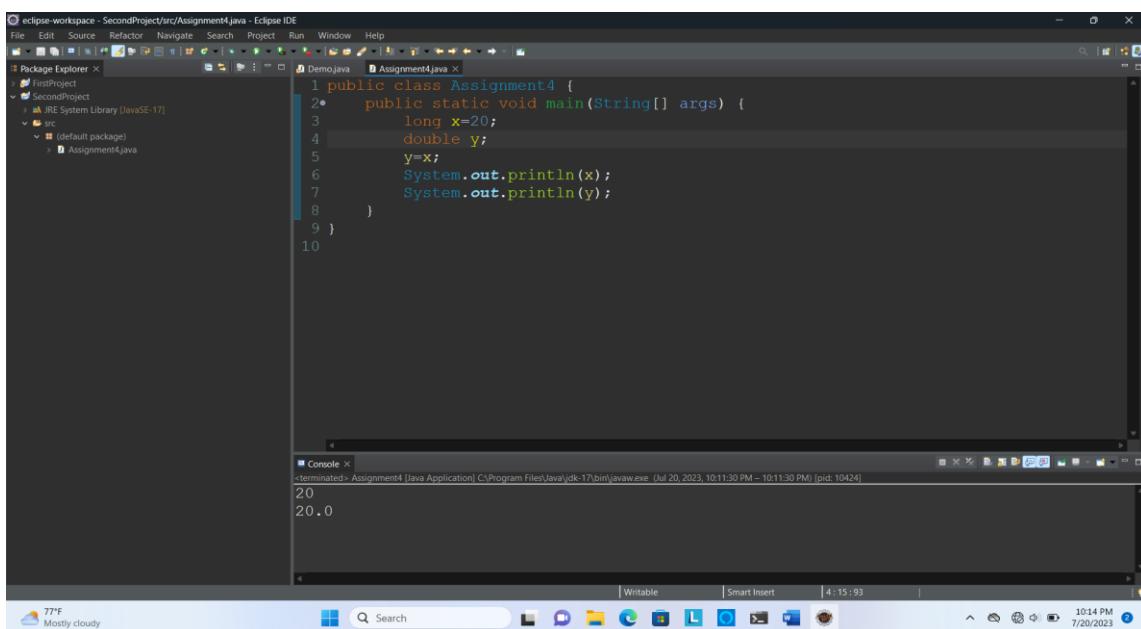
The screenshot shows the Eclipse IDE interface. In the top center, there's a tab bar with 'Assignment4.java' selected. Below it, the 'Package Explorer' shows two projects: 'FirstProject' and 'SecondProject'. The 'src' folder under 'SecondProject' contains an 'Assignment4.java' file. The code in 'Assignment4.java' is:

```
1 public class Assignment4 {  
2     public static void main(String[] args) {  
3         long x=20;  
4         float y;  
5         y=x;  
6         System.out.println(x);  
7         System.out.println(y);  
8     }  
9 }  
10
```

In the bottom right corner of the code editor, there's a small error icon. To the right of the code editor is a 'Console' window titled 'Console'. It shows the command 'java Assignment4' and its output: '20' on the first line and '20.0' on the second line. The Eclipse status bar at the bottom indicates the date and time as '7/20/2023 10:11 PM'.

**Conclusion:** Here we are doing Implicit type casting.

## long to double



The screenshot shows the Eclipse IDE interface. In the top center, there's a tab bar with 'Assignment4.java' selected. Below it, the 'Package Explorer' shows two projects: 'FirstProject' and 'SecondProject'. The 'src' folder under 'SecondProject' contains an 'Assignment4.java' file. The code in 'Assignment4.java' is:

```
1 public class Assignment4 {  
2     public static void main(String[] args) {  
3         long x=20;  
4         double y;  
5         y=x;  
6         System.out.println(x);  
7         System.out.println(y);  
8     }  
9 }  
10
```

In the bottom right corner of the code editor, there's a small error icon. To the right of the code editor is a 'Console' window titled 'Console'. It shows the command 'java Assignment4' and its output: '20' on the first line and '20.0' on the second line. The Eclipse status bar at the bottom indicates the date and time as '7/20/2023 10:11 PM'.

**Conclusion:** Here we are doing Implicit type casting.

## long to boolean

We can not convert either to Implicit or Explicit.

## float to char

The screenshot shows the Eclipse IDE interface. The Package Explorer view on the left lists two projects: FirstProject and SecondProject. The second project contains a src folder with a file named Assignment4.java. The code editor window displays the following Java code:

```
1 public class Assignment4 {
2     public static void main(String[] args) {
3         float x=20;
4         char y;
5         y=(char)x;
6         System.out.println(x);
7         System.out.println(y);
8     }
9 }
```

The console window at the bottom shows the output of the program execution:

```
20.0
20
```

The system tray at the bottom right indicates it's 10:18 PM on July 20, 2023.

**Conclusion:** Here we are doing Explicit type casting.

## float to byte

The screenshot shows the Eclipse IDE interface. The Package Explorer view on the left lists two projects: FirstProject and SecondProject. The second project contains a src folder with a file named Assignment4.java. The code editor window displays the following Java code:

```
1 public class Assignment4 {
2     public static void main(String[] args) {
3         float x=20;
4         byte y;
5         y=(byte)x;
6         System.out.println(x);
7         System.out.println(y);
8     }
9 }
```

The console window at the bottom shows the output of the program execution:

```
20.0
20
```

The system tray at the bottom right indicates it's 10:20 PM on July 20, 2023.

**Conclusion:** Here we are doing Explicit type casting.

## **float to short**

The screenshot shows the Eclipse IDE interface. In the top-left corner, it says "eclipse-workspace - SecondProject/src/Assignment4.java - Eclipse IDE". The main window displays Java code:

```
1 public class Assignment4 {
2     public static void main(String[] args) {
3         float x=20;
4         short y;
5         y=(short)x;
6         System.out.println(x);
7         System.out.println(y);
8     }
9 }
```

In the bottom-right corner of the code editor, there is a small "Convert to Short" icon (a yellow triangle pointing down).

Below the code editor is a "Console" window titled "Console x". It shows the output of the program:

```
<terminated> Assignment4 [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (Jul 20, 2023, 10:23:09 PM – 10:23:09 PM) [pid: 17649]
20.0
20
```

The system tray at the bottom shows the date and time as "7/20/2023 10:25 PM".

**Conclusion:** Here we are doing Explicit type casting.

## **float to int**

The screenshot shows the Eclipse IDE interface. In the top-left corner, it says "eclipse-workspace - SecondProject/src/Assignment4.java - Eclipse IDE". The main window displays Java code:

```
1 public class Assignment4 {
2     public static void main(String[] args) {
3         float x=50;
4         int y;
5         y=(int)x;
6         System.out.println(x);
7         System.out.println(y);
8     }
9 }
```

In the bottom-right corner of the code editor, there is a small "Convert to Integer" icon (a yellow triangle pointing down).

Below the code editor is a "Console" window titled "Console x". It shows the output of the program:

```
<terminated> Assignment4 [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (Jul 20, 2023, 10:25:23 PM – 10:25:23 PM) [pid: 5132]
50.0
50
```

The system tray at the bottom shows the date and time as "7/20/2023 10:25 PM".

**Conclusion:** Here we are doing Explicit type casting.

## **float to long**

The screenshot shows the Eclipse IDE interface with a dark theme. The Package Explorer view on the left lists two projects: FirstProject and SecondProject. The src folder under SecondProject contains an Assignment4.java file. The code in Assignment4.java is:

```
1 public class Assignment4 {  
2     public static void main(String[] args) {  
3         float x=50;  
4         long y;  
5         y=(long)x;  
6         System.out.println(x);  
7         System.out.println(y);  
8     }  
9 }  
10
```

The Console view at the bottom shows the output of the program:

```
50.0  
50
```

The system tray at the bottom of the screen indicates it's 7:20 PM on July 20, 2023, with a weather forecast of 77°F mostly cloudy.

**Conclusion:** Here we are doing Explicit type casting.

## **float to float**

We can't do any type of conversion from float to float.

## **float to double**

The screenshot shows the Eclipse IDE interface with a dark theme. The Package Explorer view on the left lists two projects: FirstProject and SecondProject. The src folder under SecondProject contains an Assignment4.java file. The code in Assignment4.java is:

```
1 public class Assignment4 {  
2     public static void main(String[] args) {  
3         float x=20;  
4         double y;  
5         y=x;  
6         System.out.println(x);  
7         System.out.println(y);  
8     }  
9 }  
10
```

The Console view at the bottom shows the output of the program:

```
20.0  
20.0
```

The system tray at the bottom of the screen indicates it's 7:31 PM on July 20, 2023, with a weather forecast of 77°F mostly cloudy.

**Conclusion:** Here we are doing Implicit type casting.

## float to Boolean

We can not convert either to Implicit or Explicit.

## double to char

The screenshot shows the Eclipse IDE interface. The Package Explorer view on the left lists two projects: FirstProject and SecondProject. The src folder under SecondProject contains Assignment4.java. The code in Assignment4.java is:

```
1 public class Assignment4 {  
2     public static void main(String[] args) {  
3         double x=20;  
4         char y;  
5         y=(char)x;  
6         System.out.println(x);  
7         System.out.println(y);  
8     }  
9 }  
10
```

The Console view at the bottom shows the output of the program:

```
<terminated> Assignment4 [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (Jul 20, 2023, 10:35:25 PM - 10:35:25 PM) [pid: 11252]  
20.0  
□
```

**Conclusion:** Here we are doing Explicit type casting.

## double to byte

The screenshot shows the Eclipse IDE interface. The Package Explorer view on the left lists two projects: FirstProject and SecondProject. The src folder under SecondProject contains Assignment4.java. The code in Assignment4.java is:

```
1 public class Assignment4 {  
2     public static void main(String[] args) {  
3         double x=20;  
4         byte y;  
5         y=(byte)x;  
6         System.out.println(x);  
7         System.out.println(y);  
8     }  
9 }  
10
```

The Console view at the bottom shows the output of the program:

```
<terminated> Assignment4 [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (Jul 20, 2023, 10:37:16 PM - 10:37:16 PM) [pid: 20244]  
20.0  
20
```

**Conclusion:** Here we are doing Explicit type casting.

## double to short

The screenshot shows the Eclipse IDE interface. The Package Explorer view on the left lists two projects: 'FirstProject' and 'SecondProject'. The 'src' folder under 'SecondProject' contains an 'Assignment4.java' file. The code in 'Assignment4.java' is:

```
1 public class Assignment4 {  
2     public static void main(String[] args) {  
3         double x=20;  
4         short y;  
5         y=(short)x;  
6         System.out.println(x);  
7         System.out.println(y);  
8     }  
9 }  
10
```

The Console view at the bottom shows the output of the program:

```
20.0  
20
```

The system tray at the bottom indicates it's 7:17 PM on July 20, 2023, with a weather forecast of 77°F mostly cloudy.

**Conclusion:** Here we are doing Explicit type casting.

## double to int

The screenshot shows the Eclipse IDE interface. The Package Explorer view on the left lists two projects: 'FirstProject' and 'SecondProject'. The 'src' folder under 'SecondProject' contains an 'Assignment4.java' file. The code in 'Assignment4.java' is:

```
1 public class Assignment4 {  
2     public static void main(String[] args) {  
3         double x=40;  
4         int y;  
5         y=(int)x;  
6         System.out.println(x);  
7         System.out.println(y);  
8     }  
9 }  
10
```

The Console view at the bottom shows the output of the program:

```
40.0  
40
```

The system tray at the bottom indicates it's 10:41 PM on July 20, 2023, with a weather forecast of 77°F mostly cloudy.

**Conclusion:** Here we are doing Explicit type casting

## **double to long**

The screenshot shows the Eclipse IDE interface. The Package Explorer view on the left lists two projects: FirstProject and SecondProject. The src folder under SecondProject contains an Assignment4.java file. The code in Assignment4.java is:

```
1 public class Assignment4 {  
2     public static void main(String[] args) {  
3         double x=40;  
4         long y;  
5         y=[0]long)x;  
6         System.out.println(x);  
7         System.out.println(y);  
8     }  
9 }  
10
```

The Console view at the bottom shows the output of the program:

```
<terminated> Assignment4 [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (Jul 20, 2023, 10:43:26 PM - 10:43:26 PM) [pid: 18760]  
40.0  
40
```

The desktop taskbar at the bottom indicates it's 7/20/2023 at 10:43 PM.

**Conclusion:** Here we are doing Explicit type casting

## **double to float**

The screenshot shows the Eclipse IDE interface. The Package Explorer view on the left lists two projects: FirstProject and SecondProject. The src folder under SecondProject contains an Assignment4.java file. The code in Assignment4.java is:

```
1 public class Assignment4 {  
2     public static void main(String[] args) {  
3         double x=40;  
4         float y;  
5         y=[0]float)x;  
6         System.out.println(x);  
7         System.out.println(y);  
8     }  
9 }  
10
```

The Console view at the bottom shows the output of the program:

```
<terminated> Assignment4 [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (Jul 20, 2023, 10:45:21 PM - 10:45:21 PM) [pid: 2056]  
40.0  
40.0
```

The desktop taskbar at the bottom indicates it's 7/20/2023 at 10:45 PM.

**Conclusion:** Here we are doing Explicit type casting

## **double to double**

We can't do any type of conversion from char to char.

### **double to boolean**

We can not convert either to Implicit or Explicit.

### **boolean to char**

We can't do any type of conversion from boolean to char.

### **boolean to byte**

We can't do any type of conversion from boolean to byte.

### **boolean to short**

We can't do any type of conversion from boolean to short.

### **boolean to int**

We can't do any type of conversion from boolean to int.

### **boolean to long**

We can't do any type of conversion from boolean to long.

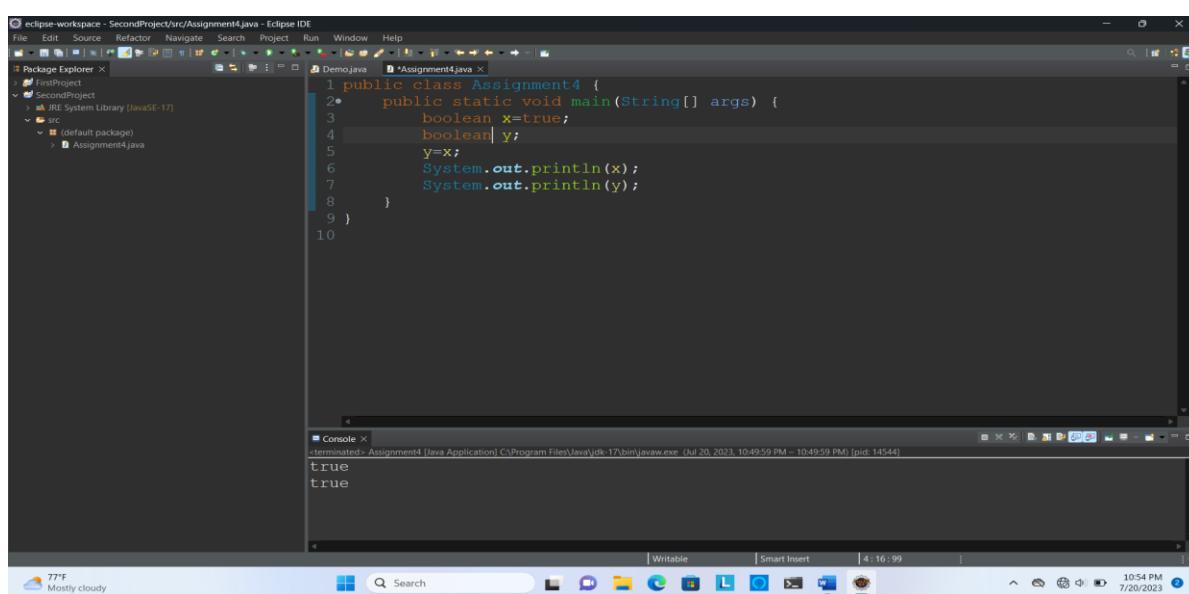
### **boolean to float**

We can't do any type of conversion from boolean to float.

### **boolean to double**

We can't do any type of conversion from boolean to double.

### **boolean to boolean**



The screenshot shows the Eclipse IDE interface. The top menu bar includes File, Edit, Source, Refactor, Navigate, Search, Project, Run, Window, and Help. The left sidebar has a Package Explorer with two projects: FirstProject and SecondProject. The SecondProject node shows an JRE System Library [JavaSE-17] and a bin folder containing Assignment4.java. The main workspace shows two tabs: Demo.java and Assignment4.java. Assignment4.java contains the following code:

```
1 public class Assignment4 {
2     public static void main(String[] args) {
3         boolean x=true;
4         boolean y;
5         y=x;
6         System.out.println(x);
7         System.out.println(y);
8     }
9 }
```

The bottom right corner of the workspace shows the system tray with icons for battery, signal, and date/time (10:54 PM, 7/20/2023). The bottom status bar shows the weather (77°F, Mostly cloudy), search bar, and other system information.

The bottom part of the screenshot shows the Console view. It displays the output of the Java application Assignment4. The console window title is <terminated> Assignment4 [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe. The output text is:

```
true
true
```

**Conclusion:** Here we are doing Implicit type casting.

	<b>char</b>	<b>byte</b>	<b>short</b>	<b>int</b>	<b>long</b>	<b>float</b>	<b>double</b>	<b>boolean</b>
<b>char</b>	Can't do	ECT	ECT	ICT	ICT	ICT	ICT	NA
<b>byte</b>	ECT	Can't do	ICT	ICT	ICT	ICT	ICT	NA
<b>short</b>	ECT	ECT	Can't do	ICT	ICT	ICT	ICT	NA
<b>int</b>	ECT	ECT	ECT	Can't do	ICT	ICT	ICT	NA
<b>long</b>	ECT	ECT	ECT	ECT	Can't do	ICT	ICT	NA
<b>float</b>	ECT	ECT	ECT	ECT	ECT	Can't do	ICT	NA
<b>double</b>	ECT	ECT	ECT	ECT	ECT	ECT	Can't do	NA
<b>boolean</b>	NA	NA	NA	NA	NA	NA	NA	ICT

I hope I have done to best of my knowledge. Thank you Sir.

