

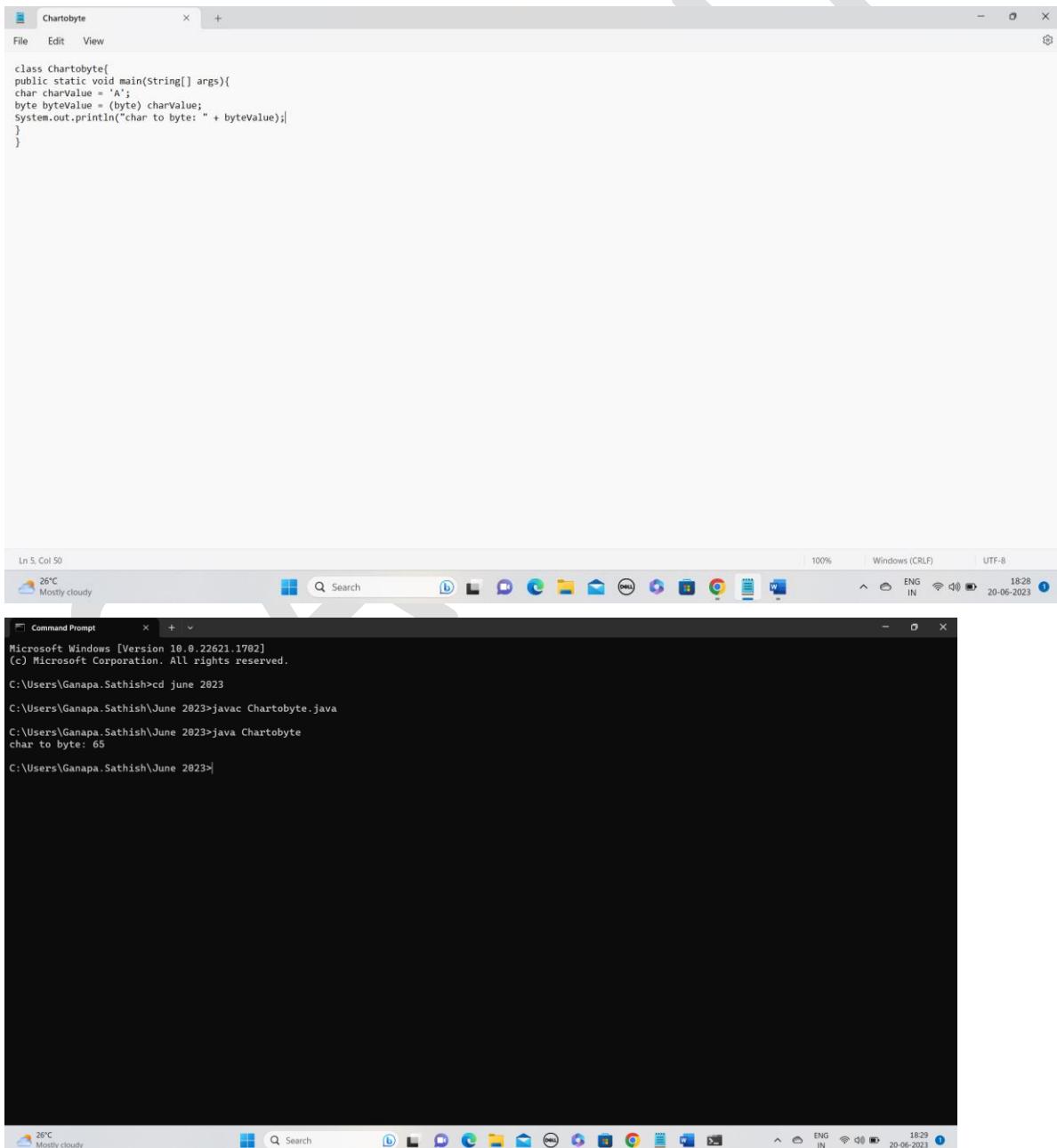
Assignment-4

Type Casting

1.Char to char conversion:

In Java, it is not possible to convert a **char** to a **char** because they are the same type. A char is a 16-bit Unicode character representing a single character, and since it is already of type **char**, there is no need for any conversion.

2.Char to byte conversion:



The image shows a Windows desktop environment. At the top, there is a Java code editor window titled "Chartobyte". The code inside is:

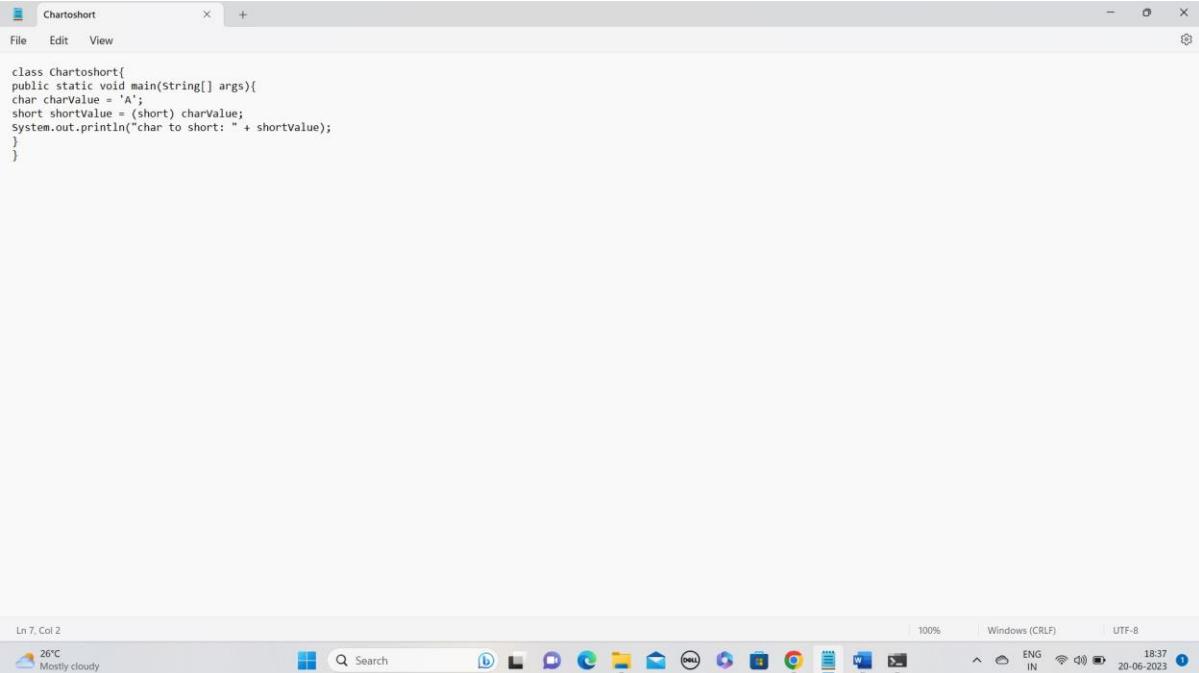
```
class Chartobyte{  
    public static void main(String[] args){  
        char charValue = 'A';  
        byte byteValue = (byte) charValue;  
        System.out.println("char to byte: " + byteValue);  
    }  
}
```

Below the code editor is a system tray with icons for weather (26°C, Mostly cloudy), search, and various system services. The taskbar at the bottom shows the date and time (20-06-2023, 18:28). In the center of the screen, there is a Command Prompt window titled "Command Prompt". The output from the command prompt is:

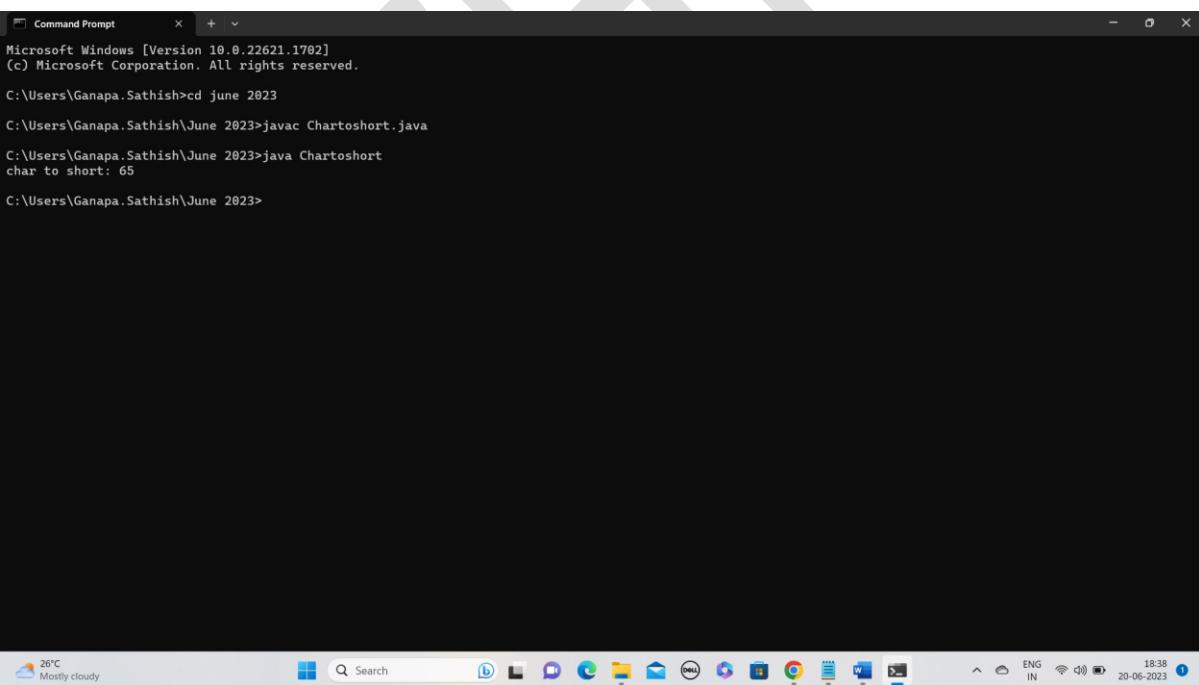
```
Microsoft Windows [Version 10.0.22621.1702]  
(C) Microsoft Corporation. All rights reserved.  
C:\Users\Ganapa.Sathish>cd june 2023  
C:\Users\Ganapa.Sathish\June 2023>javac Chartobyte.java  
C:\Users\Ganapa.Sathish\June 2023>java Chartobyte  
char to byte: 65  
C:\Users\Ganapa.Sathish\June 2023>
```

Conclusion: char to byte conversion possible [Explicit]

3.Char to short conversion:



```
class Chartoshort{
public static void main(String[] args){
char charValue = 'A';
short shortValue = (short) charValue;
System.out.println("char to short: " + shortValue);
}
}
```



```
Microsoft Windows [Version 10.0.22621.1702]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Ganapa.Sathish>cd june 2023
C:\Users\Ganapa.Sathish\June 2023>javac Chartoshort.java
C:\Users\Ganapa.Sathish\June 2023>java Chartoshort
char to short: 65

C:\Users\Ganapa.Sathish\June 2023>
```

Conclusion: char to short conversion possible[Explicit]

4.Char to int conversion:

The screenshot shows a Windows desktop environment with the following elements:

- Code Editor Window:** Titled "Chartoint", it contains Java code:

```
class Chartoint{  
    public static void main(String[] args){  
        char charValue = 'A';  
        int intValue = charValue;  
        System.out.println("char to int: " + intValue);  
    }  
}
```
- Taskbar:** Shows the Start button, search bar, and various pinned icons.
- Command Prompt Window:** Titled "Command Prompt", it shows the following terminal session:

```
Microsoft Windows [Version 10.0.22621.1782]  
(c) Microsoft Corporation. All rights reserved.  
C:\Users\Ganapa.Sathish>cd june 2023  
C:\Users\Ganapa.Sathish\June 2023>javac Chartoint.java  
C:\Users\Ganapa.Sathish\June 2023>java Chartoint  
char to int: 65  
C:\Users\Ganapa.Sathish\June 2023>
```

Conclusion: char to int conversion possible [Implicit]

5.Char to long conversion:

A screenshot of a Windows desktop environment. At the top is a taskbar with various icons. In the center, there is a code editor window titled "Chartolong". The code inside the editor is as follows:

```
class Chartolong{  
public static void main(String[] args){  
char charValue = 'A';  
long longValue = (long) charValue;  
System.out.println("char to long: " + longValue);  
}  
}
```

The status bar at the bottom of the code editor shows "Ln 7, Col 2". The system tray on the right side of the taskbar displays the date and time as "20-06-2023 18:54".

A screenshot of a Windows desktop environment. At the top is a taskbar with various icons. In the center, there is a Command Prompt window titled "Command Prompt". The command history in the window is as follows:

```
Microsoft Windows [Version 10.0.22621.1702]  
(c) Microsoft Corporation. All rights reserved.  
C:\Users\Ganapa.Sathish>cd june 2023  
C:\Users\Ganapa.Sathish\June 2023>javac Chartolong.java  
C:\Users\Ganapa.Sathish\June 2023>java Chartolong  
char to long: 65  
C:\Users\Ganapa.Sathish\June 2023>
```

The system tray on the right side of the taskbar displays the date and time as "20-06-2023 18:54".

Conclusion: char to long conversion possible[Explicit]

6.Char to float conversion:



The screenshot shows a Windows desktop environment with two windows open. At the top is a Notepad window titled "Chartofloat" containing Java code for converting a character to a float. Below it is a Command Prompt window showing the execution of the Java program, which outputs "char to float: 65.0". The desktop taskbar at the bottom includes icons for various applications like File Explorer, Mail, and browser, along with system status indicators.

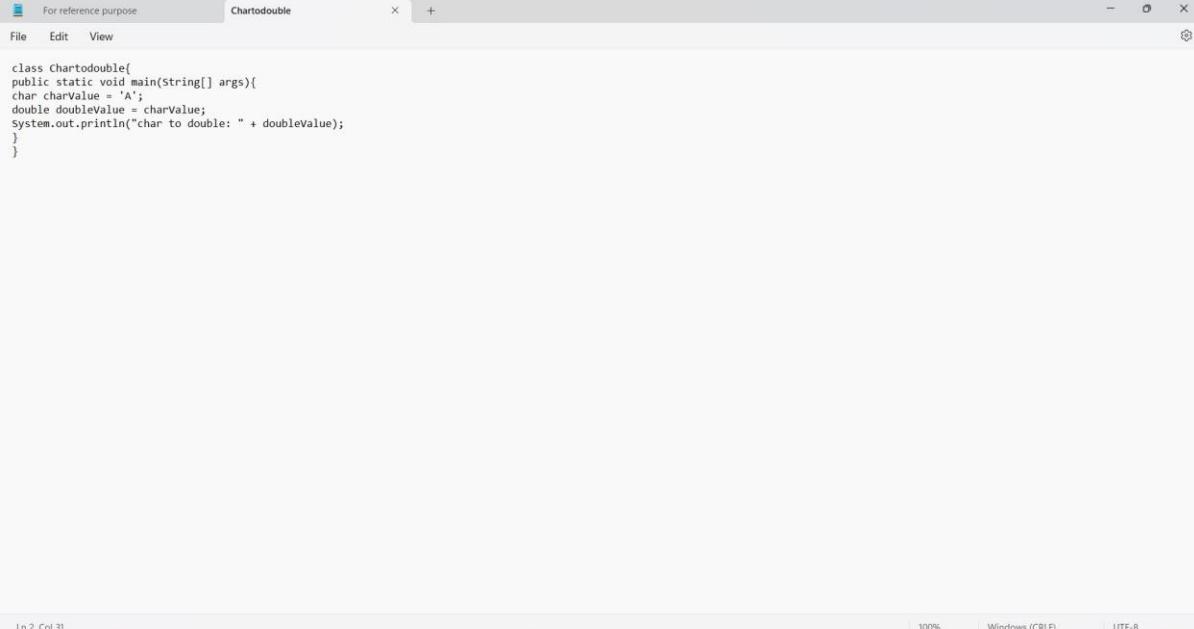
```
class Chartofloat{
public static void main(String[] args){
char charValue = 'A';
float floatValue = charValue;
System.out.println("char to float: " + floatValue);
}
}
```

```
Microsoft Windows [Version 10.0.22621.1702]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Ganapa.Sathish>cd june 2023
C:\Users\Ganapa.Sathish\June 2023>javac Chartofloat.java
C:\Users\Ganapa.Sathish\June 2023>java Chartofloat
char to float: 65.0
C:\Users\Ganapa.Sathish\June 2023>
```

Conclusion: char to float conversion possible[Implicit]

7.Char to double conversion:

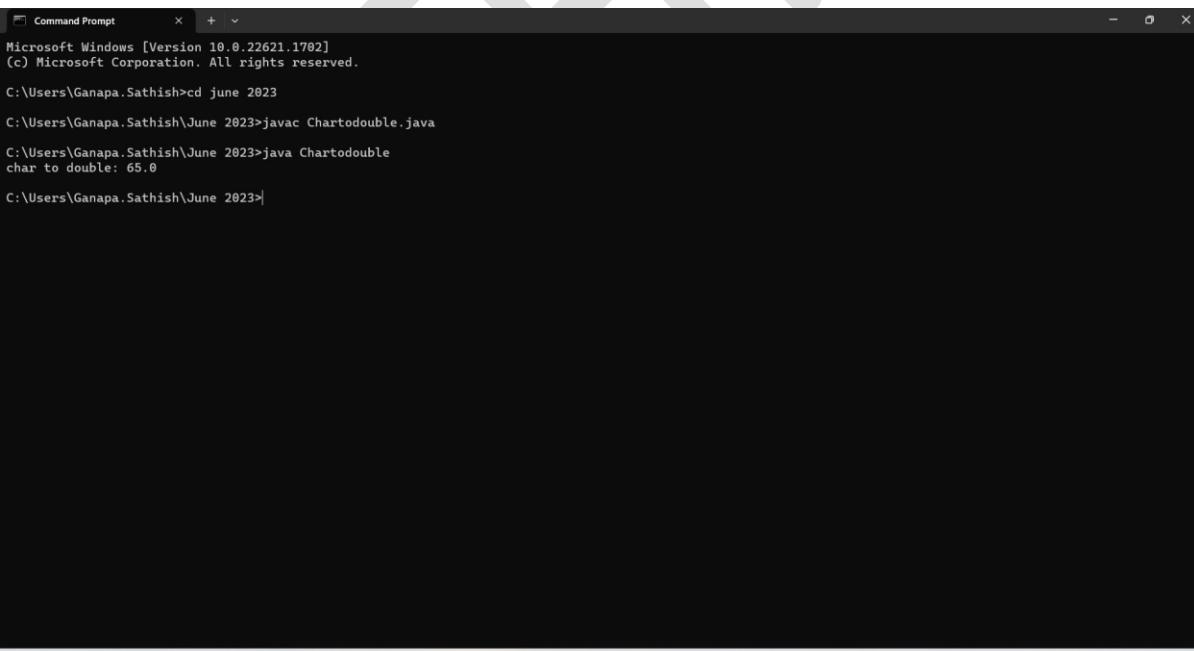


```
For reference purpose Chartodouble X + File Edit View
class Chartodouble{
public static void main(String[] args){
char charValue = 'A';
double doubleValue = charValue;
System.out.println("char to double: " + doubleValue);
}
}

Ln 2, Col 31
```



26°C Mostly cloudy Search 100% Windows (CRLF) UTF-8 ENG IN 19:05 20-06-2023



```
Command Prompt X + Microsoft Windows [Version 10.0.22621.1782]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Ganapa.Sathish>cd june 2023
C:\Users\Ganapa.Sathish\June 2023>javac Chartodouble.java
C:\Users\Ganapa.Sathish\June 2023>java Chartodouble
char to double: 65.0
C:\Users\Ganapa.Sathish\June 2023>
```



26°C Mostly cloudy Search 19:05 20-06-2023

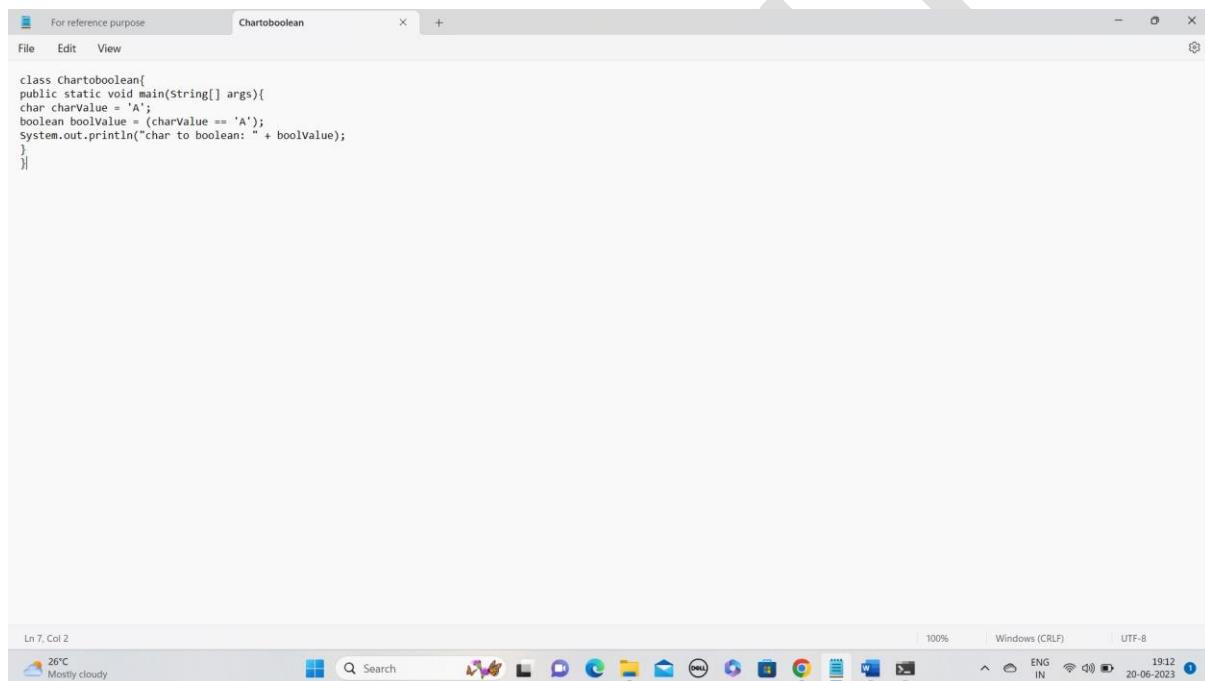
Conclusion: char to double conversion possible[Implicit]

8.Char to Boolean conversion:

No, it is not possible to directly convert a char to a boolean in Java. The boolean type in Java represents a binary value of either true or false. On the other hand, a char is a 16-bit Unicode character representing a wide range of characters.

To convert a char to a boolean, would need to define own logic or condition based on your requirements.

Here's an example that checks if a char value is equal to 'A':



```
For reference purpose Chartoboolan X +  
File Edit View  
class Chartoboolan{  
public static void main(String[] args){  
    Char charValue = 'A';  
    boolean boolValue = (charValue == 'A');  
    System.out.println("char to boolean: " + boolValue);  
}  
}|  
  
Ln 7, Col 2  
26°C Mostly cloudy Search 100% Windows (CRLF) UTF-8  
ENG IN 19:12 20-06-2023
```



```
Command Prompt
Microsoft Windows [Version 10.0.22621.1702]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Ganapa.Sathish>cd june 2023
C:\Users\Ganapa.Sathish\June 2023>javac Chartobool.java
C:\Users\Ganapa.Sathish\June 2023>java Chartobool
char to boolean: true

C:\Users\Ganapa.Sathish\June 2023>
```

Conclusion: char to Boolean conversion possible

9.byte to char conversion:



```
For reference purpose
Bytetochar
File Edit View
Minimize X

class Bytetochar{
public static void main(String[] args){
byte byteValue = 65;
char charValue = (char) byteValue;
System.out.println("byte to char: " + charValue);
}
}
```

Ln 7, Col 2

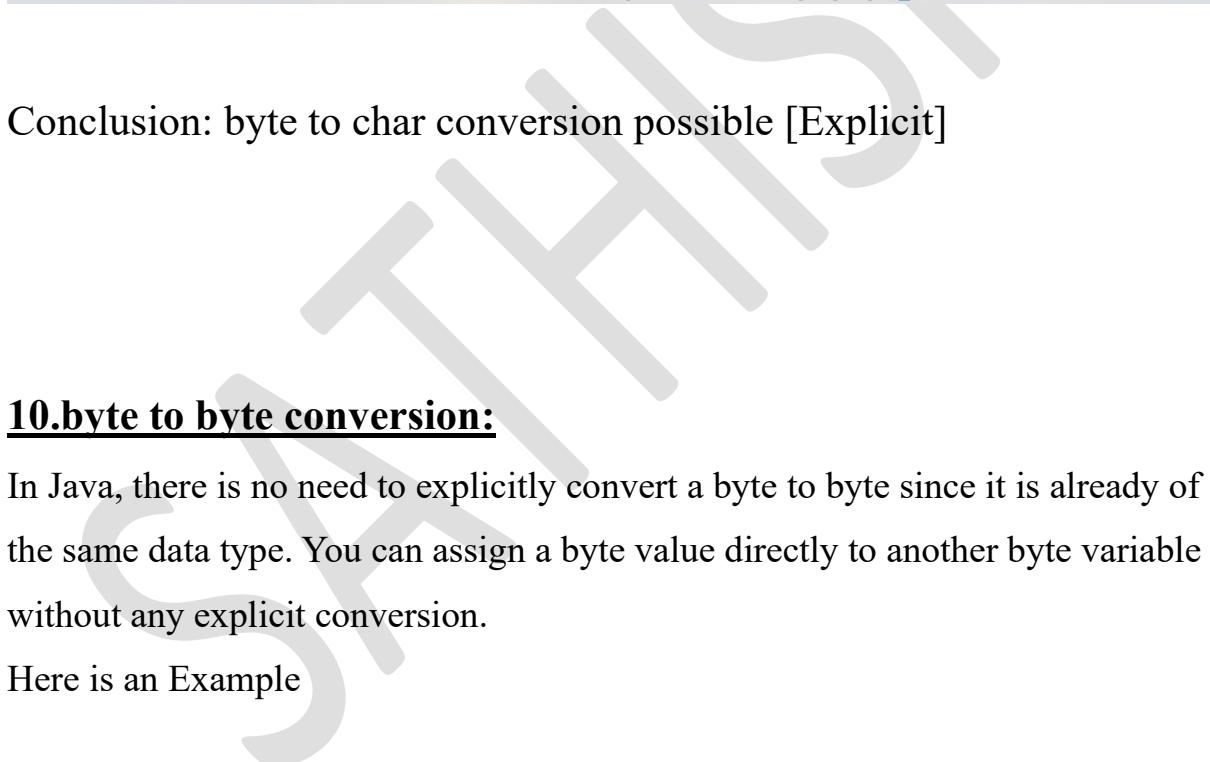
100%

Windows (CRLF)

UTF-8

26°C
Mostly cloudy





```
Command Prompt
Microsoft Windows [Version 10.0.2621.1702]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Ganapa.Sathish>cd june 2023
C:\Users\Ganapa.Sathish\June 2023>javac Bytetochar.java
C:\Users\Ganapa.Sathish\June 2023>java Bytetochar
byte to char: A

C:\Users\Ganapa.Sathish\June 2023>
```

Conclusion: byte to char conversion possible [Explicit]

10.byte to byte conversion:

In Java, there is no need to explicitly convert a byte to byte since it is already of the same data type. You can assign a byte value directly to another byte variable without any explicit conversion.

Here is an Example

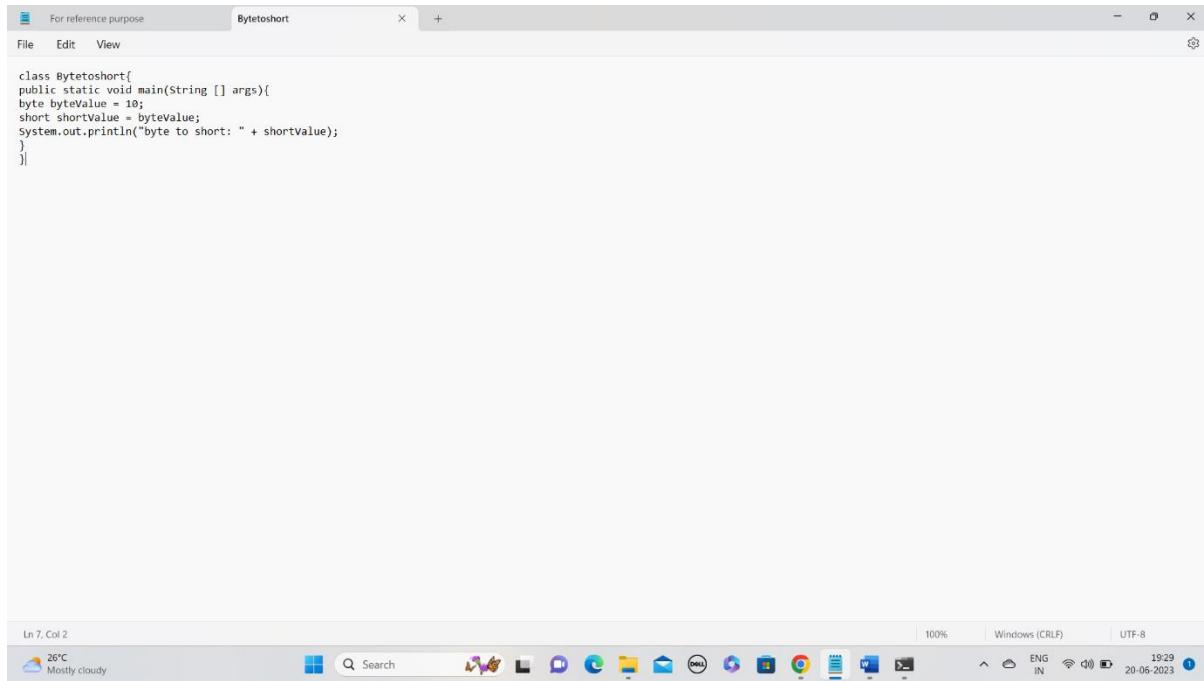
The image shows a Windows desktop environment with two open windows. The top window is a code editor titled "Byteobyte" with the file path "For reference purpose". It contains the following Java code:

```
class Byteobyte{  
    public static void main(String [] args){  
        byte byteValue1 = 10;  
        byte byteValue2 = byteValue1;  
        System.out.println("byte to byte: " + byteValue2);  
    }  
}
```

The bottom window is a Command Prompt titled "Command Prompt". The session log is as follows:

```
C:\Users\Ganapa.Sathish>cd june 2023  
C:\Users\Ganapa.Sathish\June 2023>javac Byteobyte.java  
C:\Users\Ganapa.Sathish\June 2023>java Byteobyte  
Error: Could not find or load main class Byteobyte  
C:\Users\Ganapa.Sathish\June 2023>javac Byteobyte.java  
C:\Users\Ganapa.Sathish\June 2023>java Byteobyte  
byte to byte: 10  
C:\Users\Ganapa.Sathish\June 2023>
```

11.byte to short conversion:

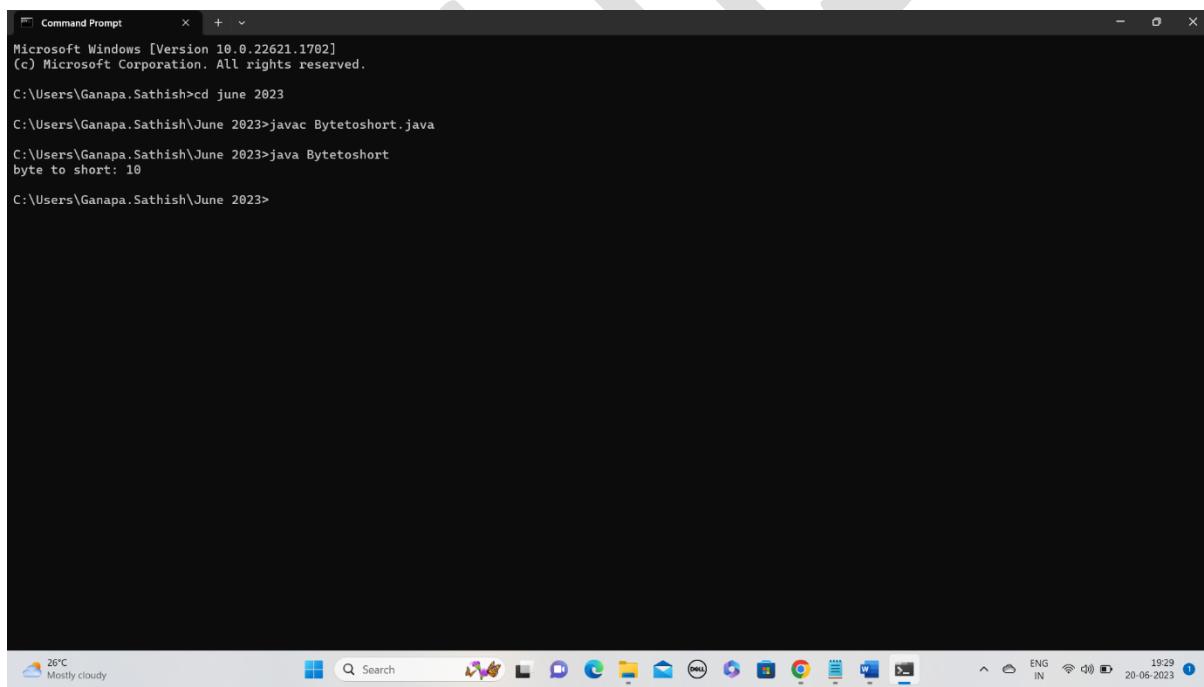


```
For reference purpose Bytetoshort X + File Edit View class Bytetoshort{ public static void main(String [] args){ byte byteValue = 10; short shortValue = byteValue; System.out.println("byte to short: " + shortValue); }]
```

Ln 7, Col 2

26°C Mostly cloudy Search 100% Windows (CRLF) UTF-8

ENG IN 19:29 20-06-2023



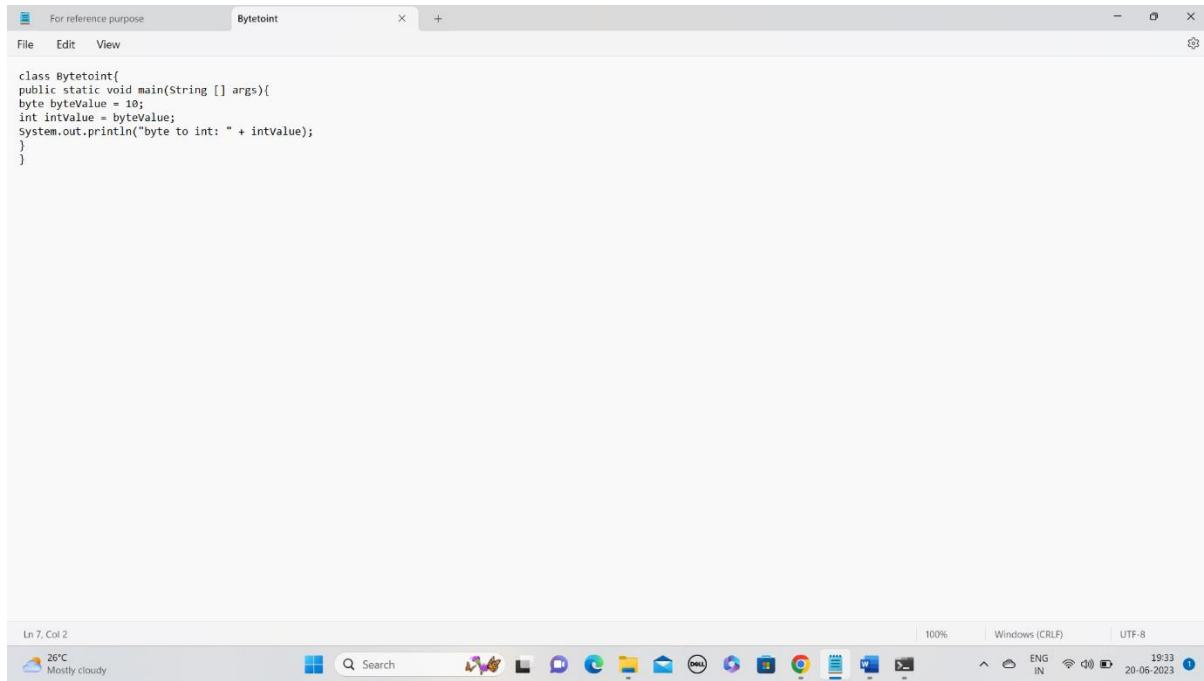
```
Command Prompt + Microsoft Windows [Version 10.0.22621.1702] (c) Microsoft Corporation. All rights reserved. C:\Users\Ganapa.Sathish>cd june 2023 C:\Users\Ganapa.Sathish\June 2023>javac Bytetoshort.java C:\Users\Ganapa.Sathish\June 2023>java Bytetoshort byte to short: 10 C:\Users\Ganapa.Sathish\June 2023>
```

26°C Mostly cloudy Search 100% Windows (CRLF) UTF-8

ENG IN 19:29 20-06-2023

Conclusion: byte to short conversion possible [Implicit]

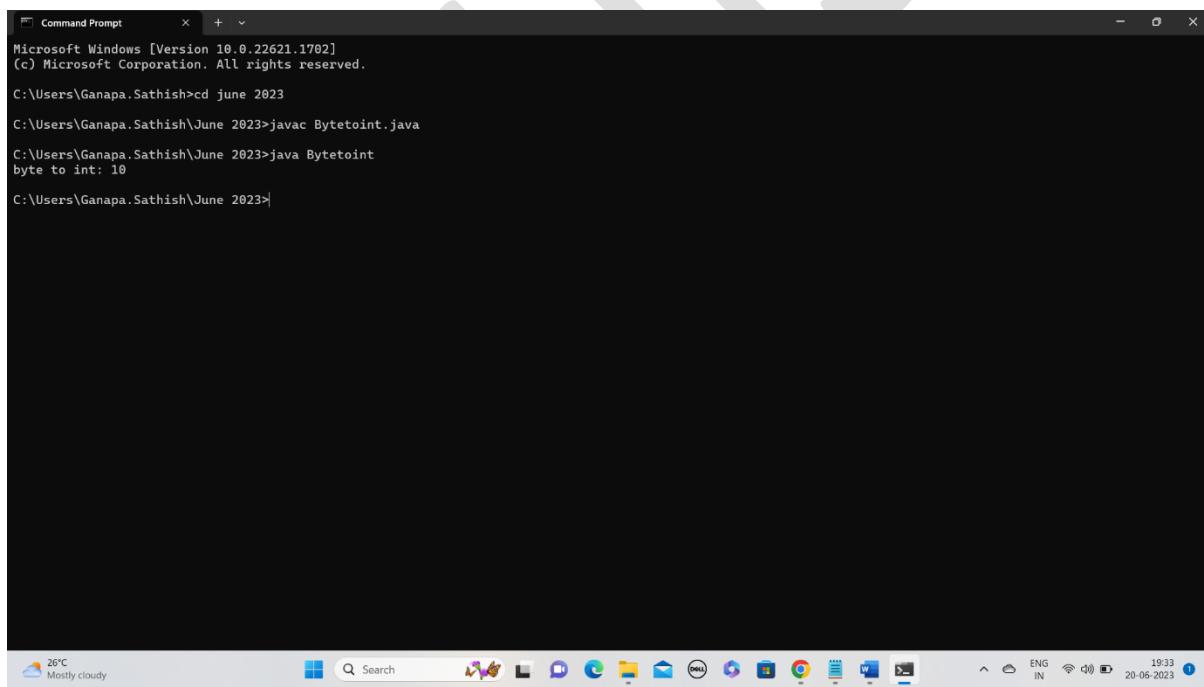
12.byte to int conversion:



A screenshot of a Java code editor window titled "Bytetoint". The code is as follows:

```
class Bytetoint{
    public static void main(String [] args){
        byte byteValue = 10;
        int intValue = byteValue;
        System.out.println("byte to int: " + intValue);
    }
}
```

The status bar at the bottom shows "Ln 7, Col 2". The system tray indicates it's 26°C and mostly cloudy. The taskbar includes icons for search, file explorer, and various applications.



A screenshot of a Windows Command Prompt window titled "Command Prompt". The command history shows:

```
Microsoft Windows [Version 10.0.22621.1702]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Ganapa.Sathish>cd june 2023
C:\Users\Ganapa.Sathish\June 2023>javac Bytetoint.java
C:\Users\Ganapa.Sathish\June 2023>java Bytetoint
byte to int: 10
C:\Users\Ganapa.Sathish\June 2023>
```

The status bar at the bottom shows "26°C Mostly cloudy". The taskbar includes icons for search, file explorer, and various applications.

Conclusion: Byte to int conversion possible [Implicit]

13.byte to long conversion:

A screenshot of a Java code editor window titled "Bytetolong". The code is as follows:

```
class Bytetolong{
    public static void main(String [] args){
        byte byteValue = 10;
        long longValue = byteValue;
        System.out.println("byte to long: " + longValue);
    }
}
```

The status bar at the bottom shows "Ln 7, Col 2". The system tray indicates it's 26°C and mostly cloudy. The taskbar includes icons for search, file explorer, and various applications.

A screenshot of a Windows Command Prompt window titled "Command Prompt". The command history shows:

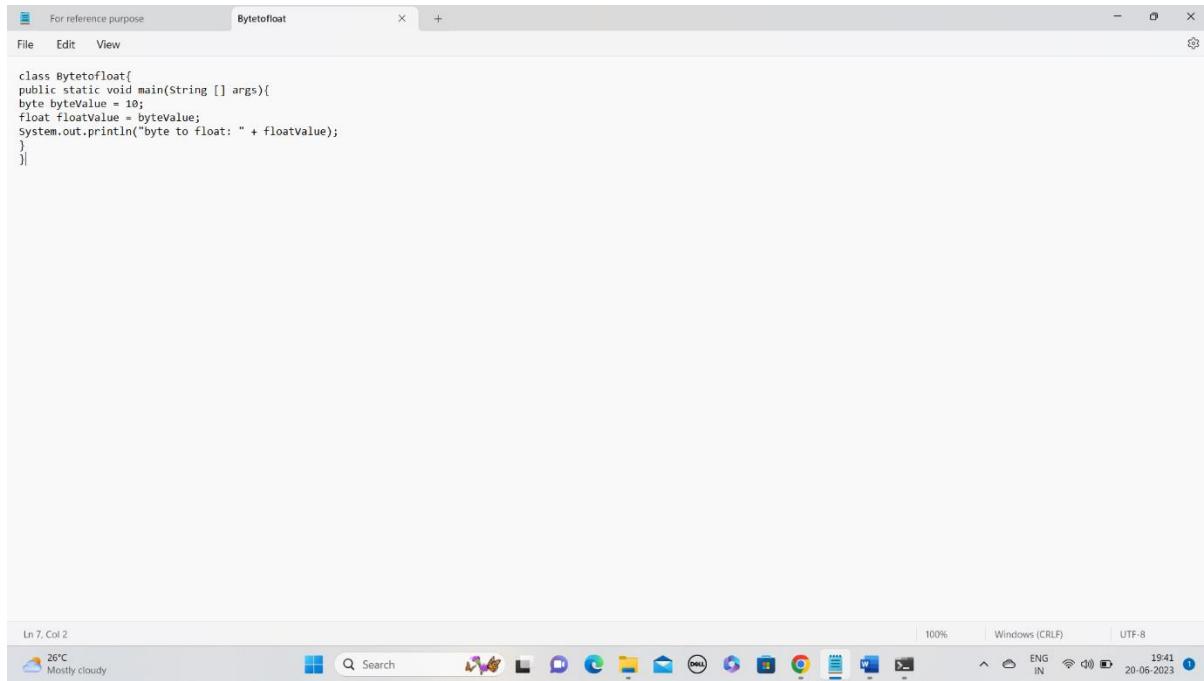
```
Microsoft Windows [Version 10.0.22621.1702]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Ganapa.Sathish>cd june 2023
C:\Users\Ganapa.Sathish\June 2023>javac Bytetolong.java
C:\Users\Ganapa.Sathish\June 2023>java Bytetolong
byte to long: 10
C:\Users\Ganapa.Sathish\June 2023>
```

The status bar at the bottom shows "26°C Mostly cloudy". The taskbar includes icons for search, file explorer, and various applications.

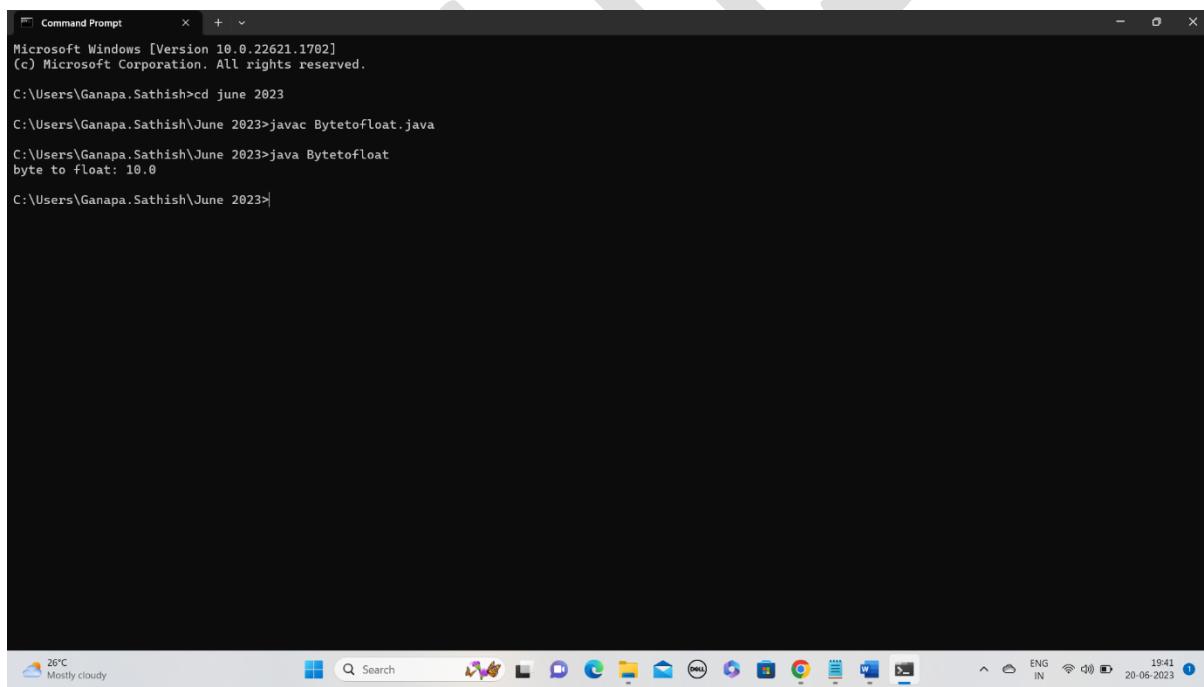
Conclusion: byte to long conversion possible [Implicit]

14.byte to float conversion:



```
For reference purpose Bytetofloat
File Edit View
class Bytetofloat{
public static void main(String [] args){
byte byteValue = 10;
float floatValue = byteValue;
System.out.println("byte to float: " + floatValue);
}
}

Ln 7, Col 2
26°C Mostly cloudy Search 100% Windows (CRLF) UTF-8
ENG IN 19:41 20-06-2023
```



```
Command Prompt
Microsoft Windows [Version 10.0.22621.1702]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Ganapa.Sathish>cd june 2023
C:\Users\Ganapa.Sathish\June 2023>javac Bytetofloat.java
C:\Users\Ganapa.Sathish\June 2023>java Bytetofloat
byte to float: 10.0
C:\Users\Ganapa.Sathish\June 2023>
```

Conclusion: Byte to float conversion possible[Implicit]

15.byte to double conversion:

A screenshot of a Java code editor window titled "Bytetodouble". The code is as follows:

```
For reference purpose
class Bytetodouble{
public static void main(String [] args){
byte byteValue = 10;
double doubleValue = byteValue;
System.out.println("byte to double: " + doubleValue);
}
}
```

The status bar at the bottom shows "Ln 7, Col 2". The system tray indicates it's 26°C and mostly cloudy. The taskbar includes icons for search, file explorer, and various applications.

A screenshot of a Windows Command Prompt window titled "Command Prompt". The command history shows:

```
Microsoft Windows [Version 10.0.22621.1702]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Ganapa.Sathish>cd june 2023
C:\Users\Ganapa.Sathish\June 2023>javac Bytetodouble.java
C:\Users\Ganapa.Sathish\June 2023>java Bytetodouble
byte to double: 10.0
C:\Users\Ganapa.Sathish\June 2023>
```

The status bar at the bottom shows "26°C Mostly cloudy". The taskbar includes icons for search, file explorer, and various applications.

Conclusion: byte to double conversion is possible [Implicit]

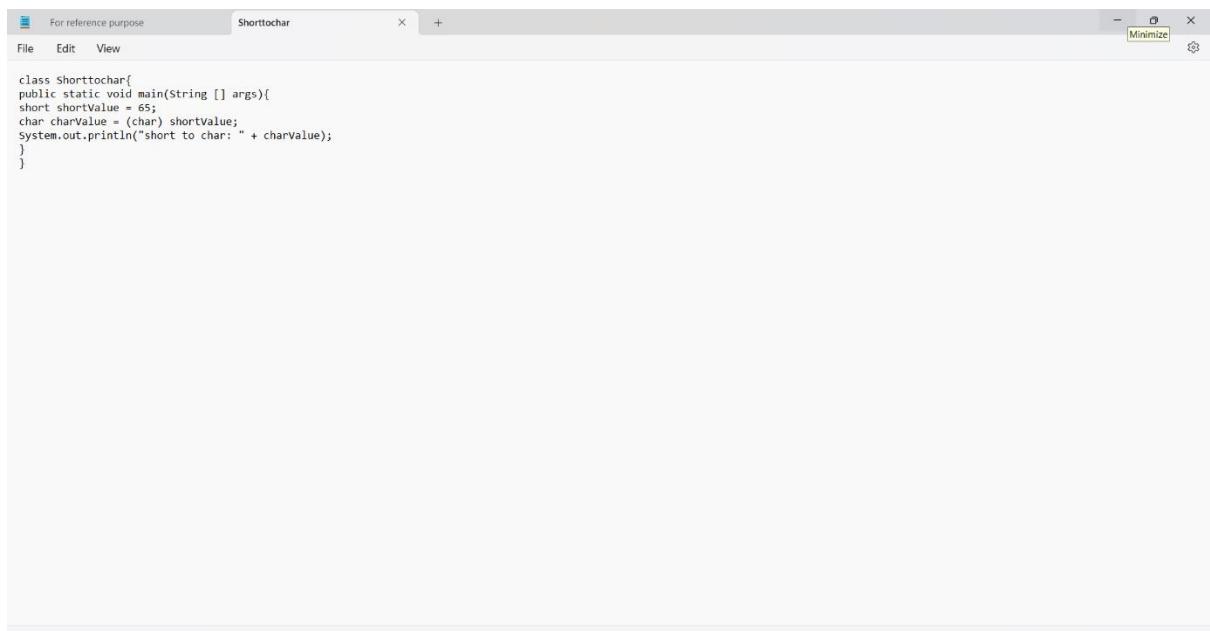
16.byte to boolean conversion:

No, it is not possible to directly convert a byte to a boolean in Java.

The boolean type in Java represents a binary value of either true or false, while a byte is an 8-bit signed value.

To convert a byte to a boolean, would need to define own logic or condition based on your specific requirements.

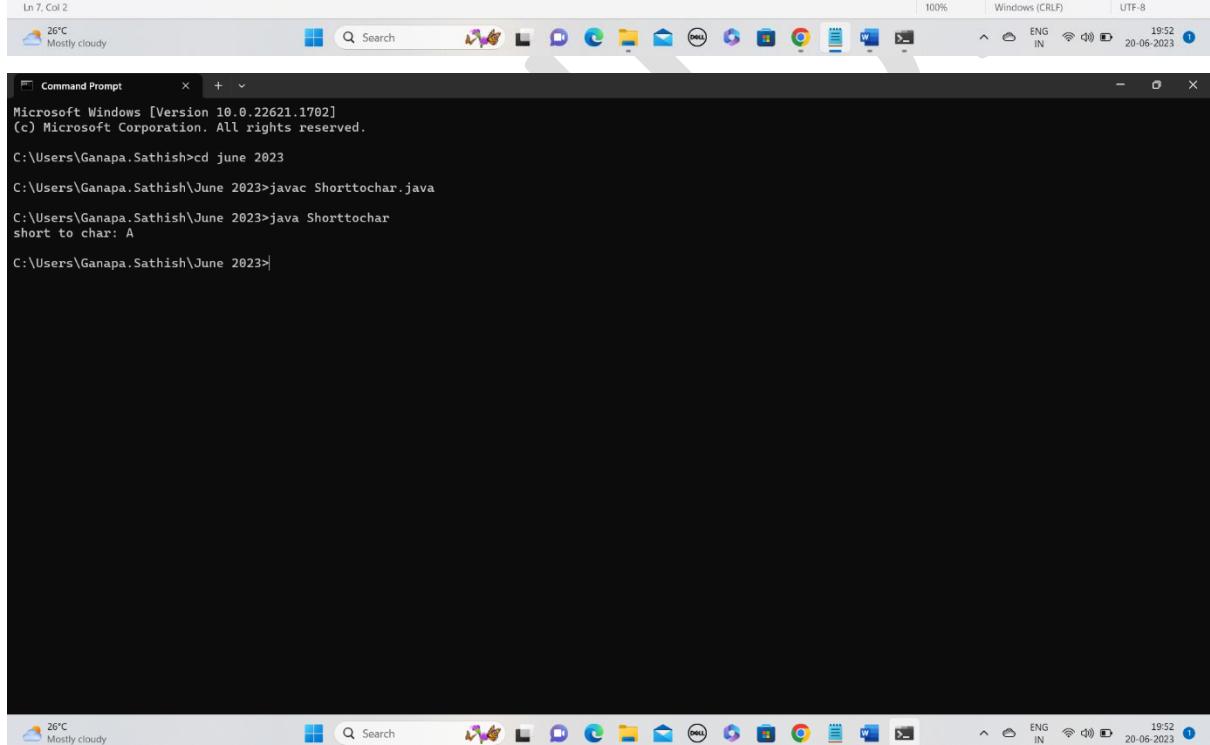
17.Short to char conversion:



A screenshot of a Java code editor window titled "Shorttochar". The code is as follows:

```
For reference purpose
class Shorttochar{
public static void main(String [] args){
short shortValue = 65;
char charValue = (char) shortValue;
System.out.println("short to char: " + charValue);
}
}
```

The status bar at the bottom shows "Ln 7, Col 2".



A screenshot of a Windows Command Prompt window titled "Command Prompt". The command history shows:

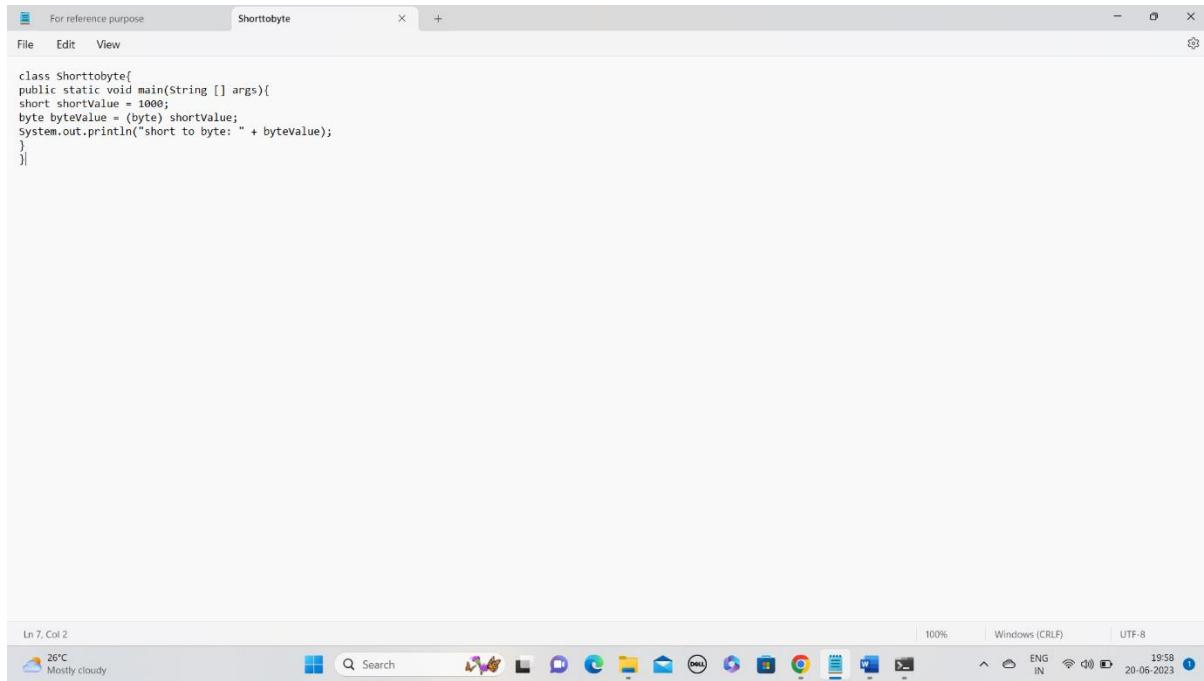
```
Microsoft Windows [Version 10.0.22621.1702]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Ganapa.Sathish>cd june 2023
C:\Users\Ganapa.Sathish\June 2023>javac Shorttochar.java
C:\Users\Ganapa.Sathish\June 2023>java Shorttochar
short to char: A
C:\Users\Ganapa.Sathish\June 2023>
```

The status bar at the bottom shows "26°C Mostly cloudy" and the date/time "20-06-2023 19:52".

Conclusion: Short to char conversion possible [Explicit]

18.Short to byte conversion:

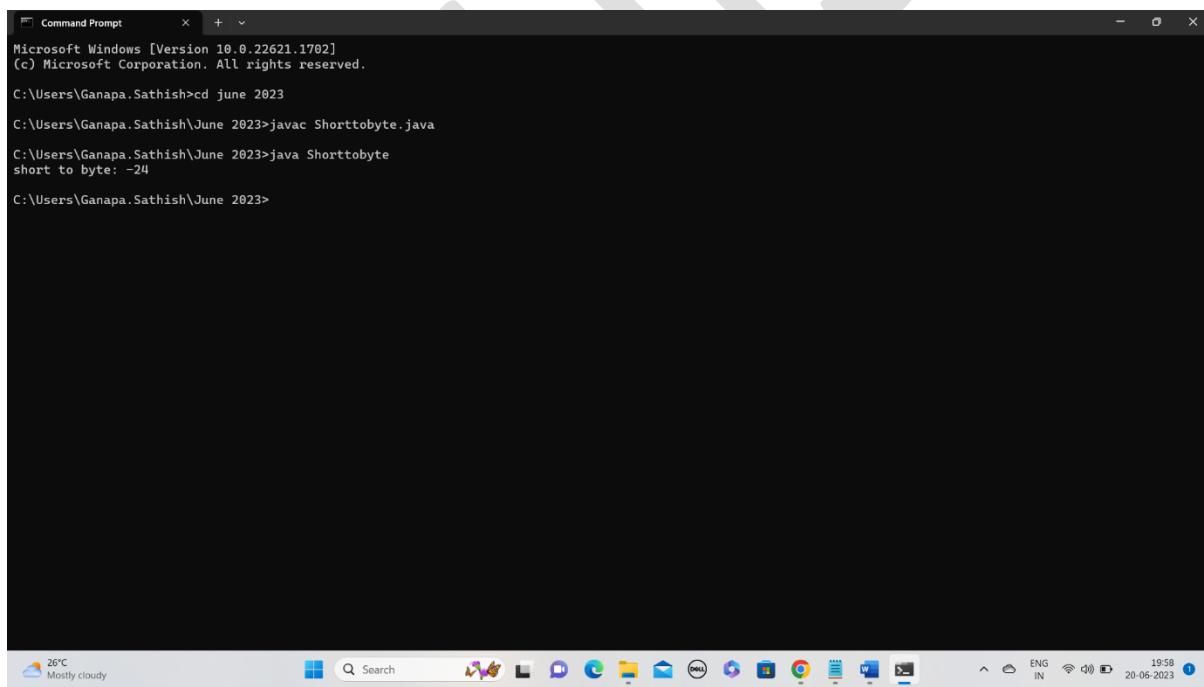


```
For reference purpose Shorttobyte X + File Edit View
class Shorttobyte{
public static void main(String [] args){
short shortvalue = 1000;
byte byteValue = (byte) shortvalue;
System.out.println("short to byte: " + byteValue);
}
}|
```

Ln 7, Col 2

26°C Mostly cloudy Search 100% Windows (CRLF) UTF-8

ENG IN 19:58 20-06-2023



```
Command Prompt + Microsoft Windows [Version 10.0.22621.1702]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Ganapa.Sathish>cd june 2023
C:\Users\Ganapa.Sathish\June 2023>javac Shorttobyte.java
C:\Users\Ganapa.Sathish\June 2023>java Shorttobyte
short to byte: -24
C:\Users\Ganapa.Sathish\June 2023>
```

26°C Mostly cloudy Search 100% Windows (CRLF) UTF-8

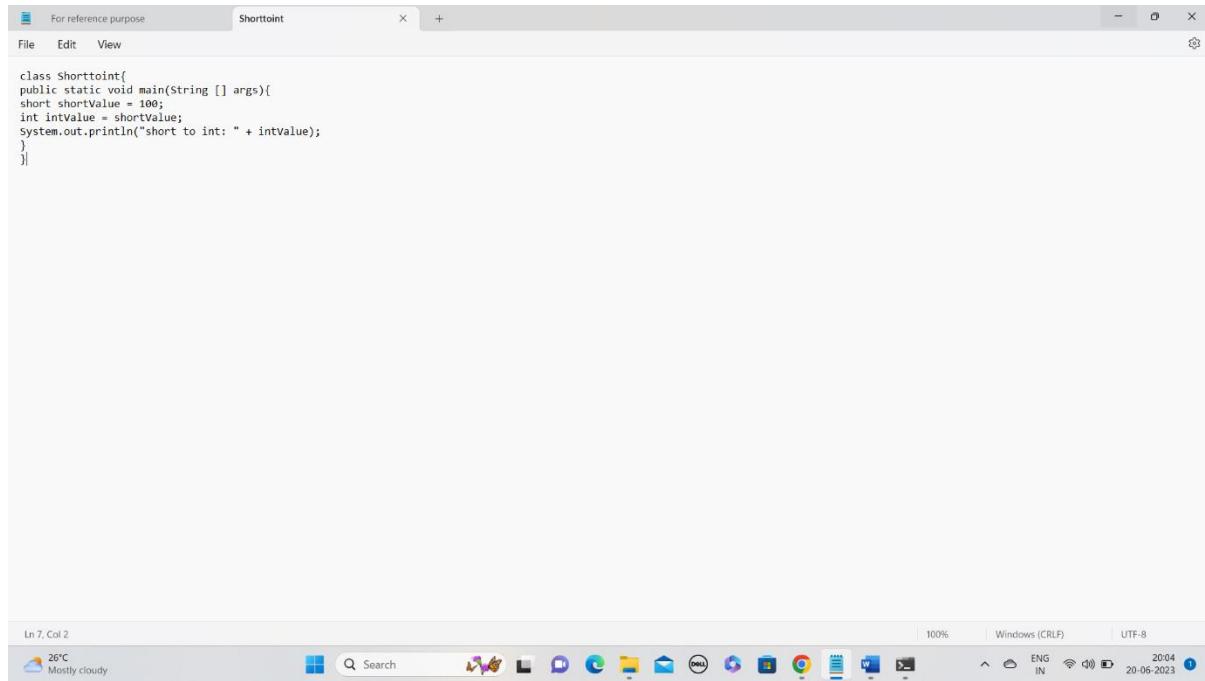
ENG IN 19:58 20-06-2023

Conclusion: Short to byte conversion is possible[Explicit]

19.Short to short conversion:

Yes, it is possible to assign a short value to another short variable in Java. Since both variables are of the same data type, no explicit conversion is required.

20.Short to int conversion:

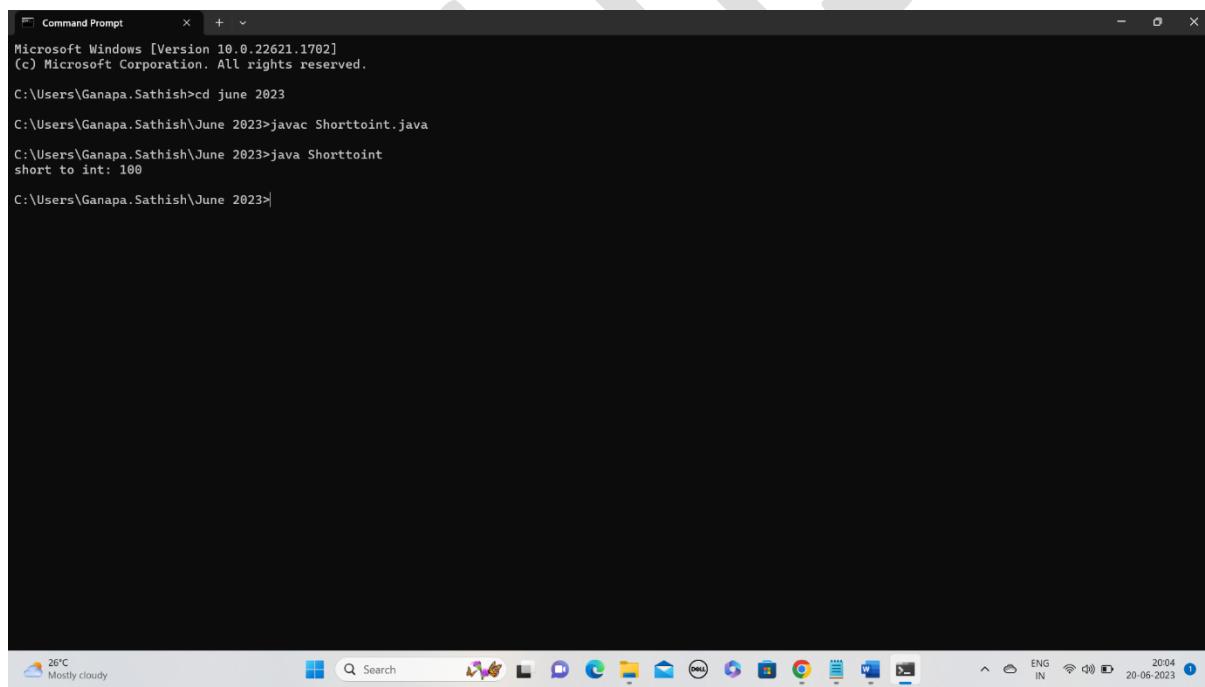


```
For reference purpose Shorttoint X + File Edit View
class Shorttoint{
    public static void main(String [] args){
        short shortvalue = 100;
        int intValue = shortvalue;
        System.out.println("short to int: " + intValue);
    }
}|
```

Ln 7, Col 2

26°C Mostly cloudy Search 100% Windows (CRLF) UTF-8

ENG IN 20:04 20-06-2023



```
Command Prompt + Microsoft Windows [Version 10.0.22621.1702]
(c) Microsoft Corporation. All rights reserved.

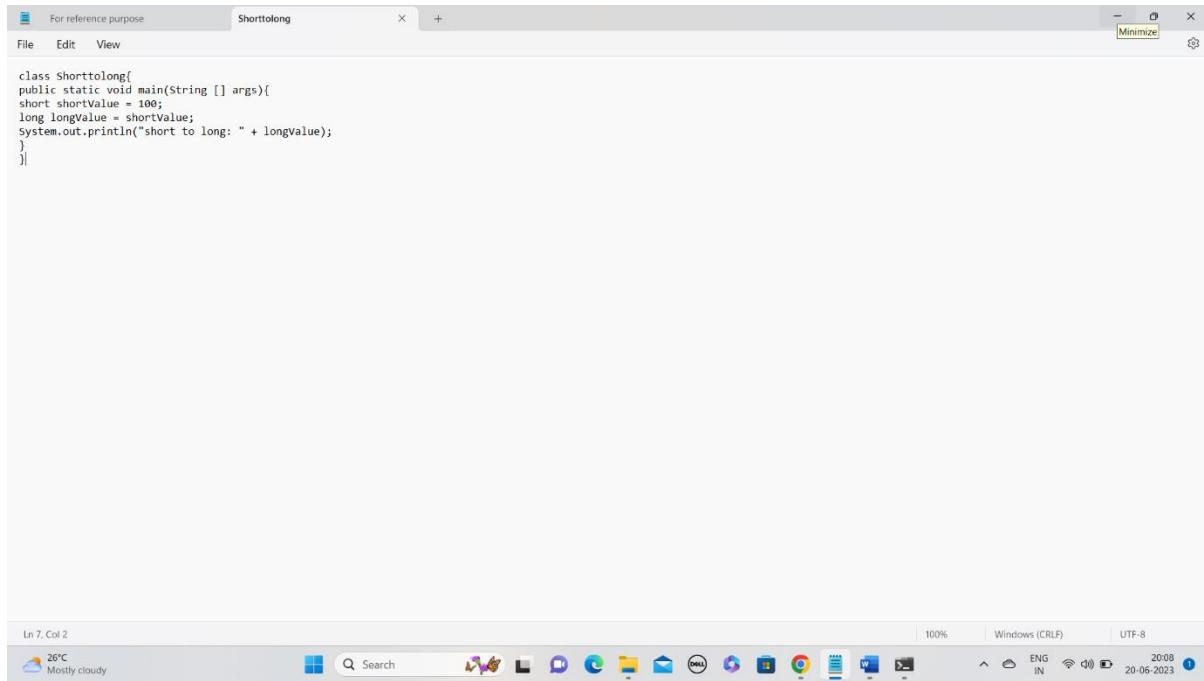
C:\Users\Ganapa.Sathish>cd june 2023
C:\Users\Ganapa.Sathish\June 2023>javac Shorttoint.java
C:\Users\Ganapa.Sathish\June 2023>java Shorttoint
short to int: 100
C:\Users\Ganapa.Sathish\June 2023>
```

26°C Mostly cloudy Search 100% Windows (CRLF) UTF-8

ENG IN 20:04 20-06-2023

Conclusion: Short to int conversion possible [Implicit]

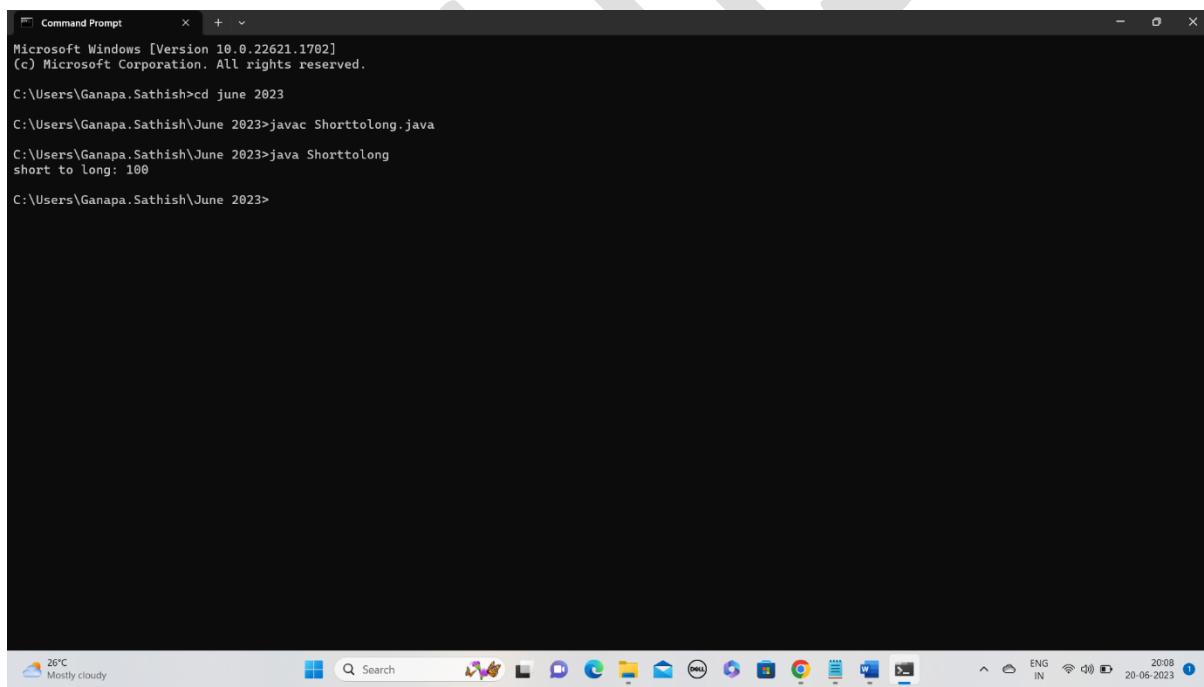
21.Short to long conversion:



A screenshot of a Java code editor window titled "Shorttolong". The code is as follows:

```
For reference purpose
class Shorttolong{
    public static void main(String [] args){
        short shortValue = 100;
        long longValue = shortValue;
        System.out.println("short to long: " + longValue);
    }
}
```

The status bar at the bottom shows "Ln 7, Col 2". The system tray indicates it's 20:08, 20-06-2023, with the weather as 26°C Mostly cloudy.



A screenshot of a Windows Command Prompt window titled "Command Prompt". The output is:

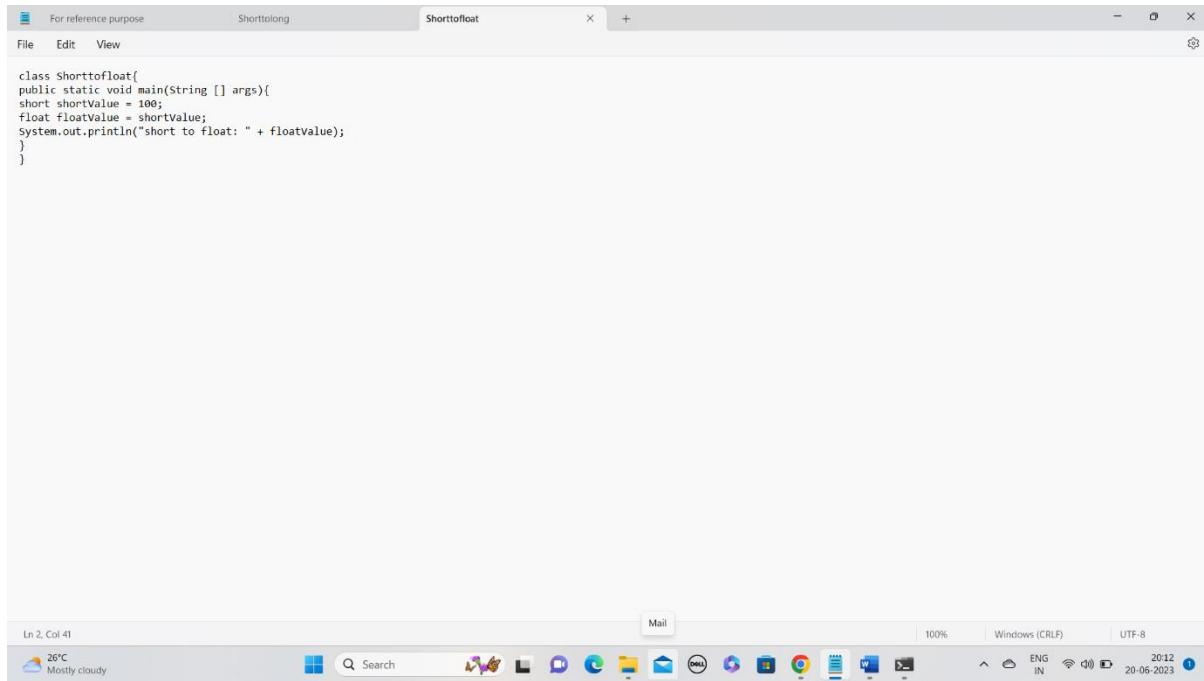
```
Microsoft Windows [Version 10.0.22621.1702]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Ganapa.Sathish>cd june 2023
C:\Users\Ganapa.Sathish\June 2023>javac Shorttolong.java
C:\Users\Ganapa.Sathish\June 2023>java Shorttolong
short to long: 100
C:\Users\Ganapa.Sathish\June 2023>
```

The status bar at the bottom shows "20:08 20-06-2023". The system tray indicates it's 20:08, 20-06-2023, with the weather as 26°C Mostly cloudy.

Conclusion: Short to long conversion is possible [Implicit]

22.Short to float conversion:

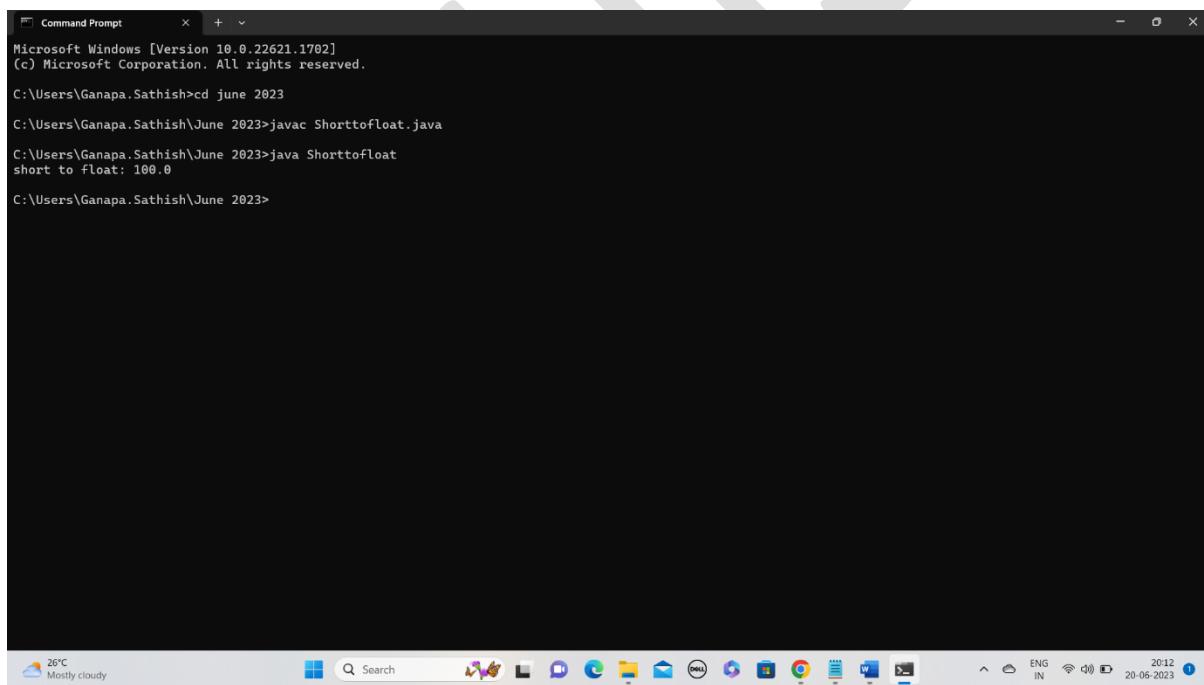


```
For reference purpose Shorttolong Shorttofloat
File Edit View
class Shorttofloat{
public static void main(String [] args){
short shortvalue = 100;
float floatValue = shortvalue;
System.out.println("short to float: " + floatValue);
}
}
```

Ln 2, Col 41

26°C Mostly cloudy Mail 100% Windows (CRLF) UTF-8

ENG IN 20:12 20-06-2023



```
Command Prompt
Microsoft Windows [Version 10.0.22621.1702]
(c) Microsoft Corporation. All rights reserved.

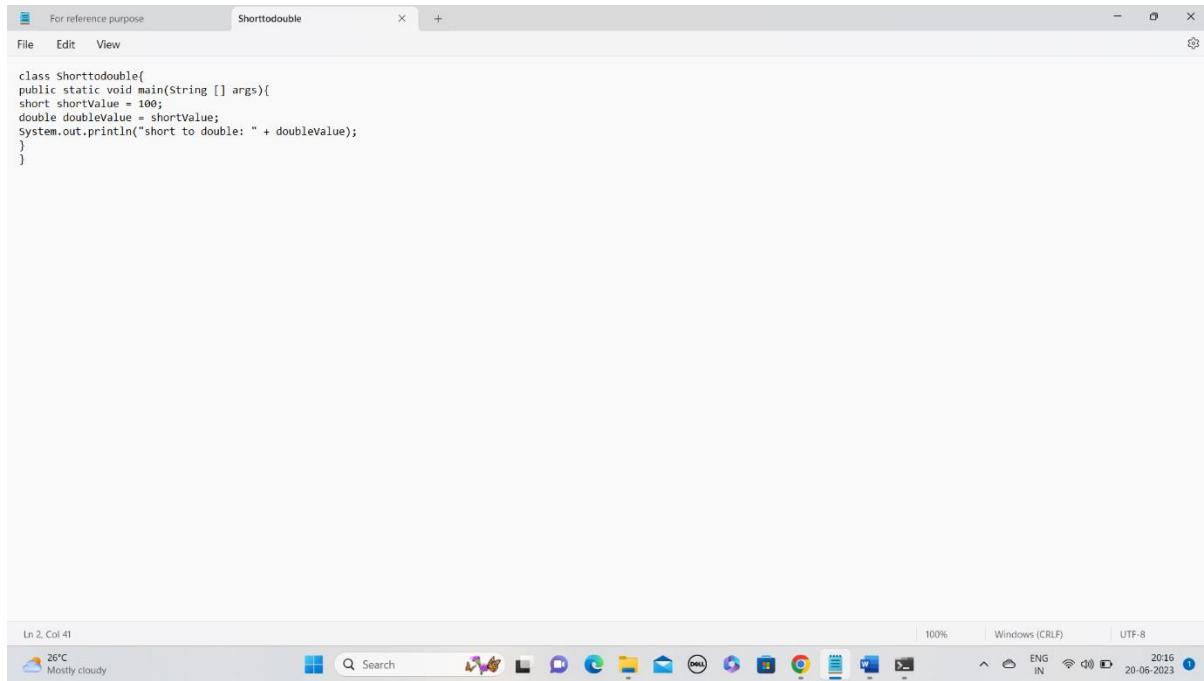
C:\Users\Ganapa.Sathish>cd june 2023
C:\Users\Ganapa.Sathish\June 2023>javac Shorttofloat.java
C:\Users\Ganapa.Sathish\June 2023>java Shorttofloat
short to float: 100.0
C:\Users\Ganapa.Sathish\June 2023>
```

26°C Mostly cloudy Search Mail 100% Windows (CRLF) UTF-8

ENG IN 20:12 20-06-2023

Conclusion: Short to float conversion is possible [Implicit]

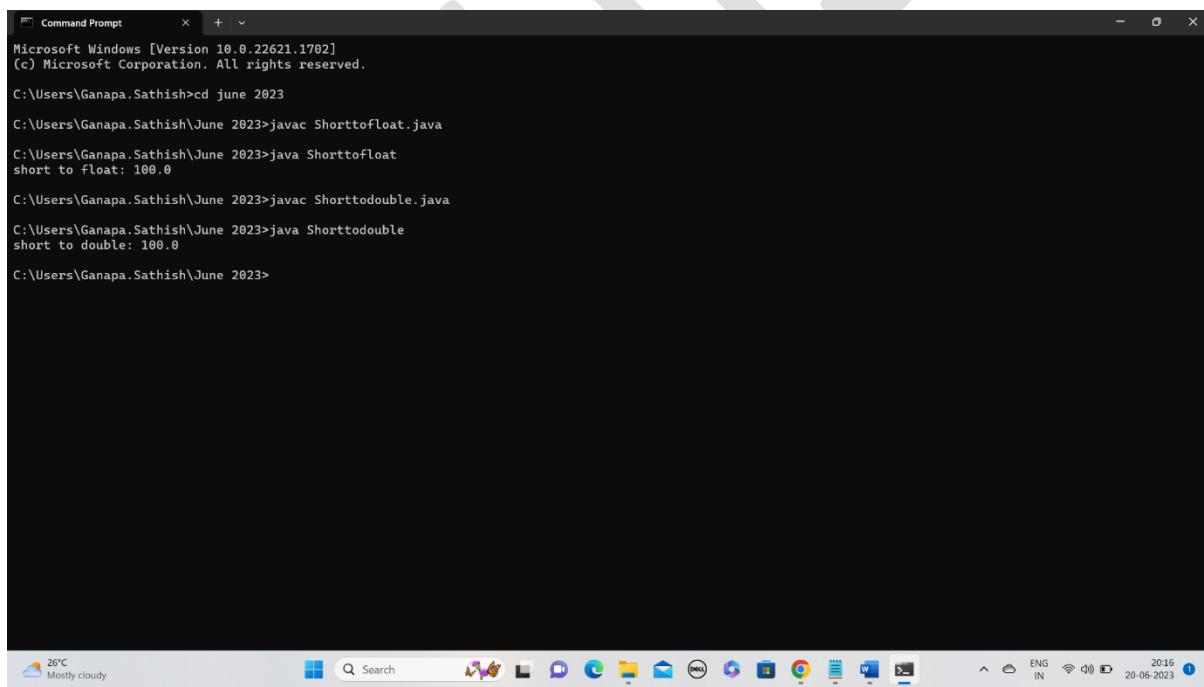
23.Short to double conversion:



A screenshot of a Java code editor window titled "Shorttодouble". The code is as follows:

```
For reference purpose
class Shorttодouble{
    public static void main(String [] args){
        short shortValue = 100;
        double doubleValue = shortValue;
        System.out.println("short to double: " + doubleValue);
    }
}
```

The status bar at the bottom shows "Ln 2, Col 41". The system tray indicates it's 20:16 on June 20, 2023, with the weather as mostly cloudy at 26°C.



A screenshot of a Windows Command Prompt window titled "Command Prompt". The command history shows:

```
Microsoft Windows [Version 10.0.22621.1702]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Ganapa.Sathish>cd june 2023
C:\Users\Ganapa.Sathish\June 2023>javac Shorttofloat.java
C:\Users\Ganapa.Sathish\June 2023>java Shorttofloat
short to float: 100.0

C:\Users\Ganapa.Sathish\June 2023>javac Shorttодouble.java
C:\Users\Ganapa.Sathish\June 2023>java Shorttодouble
short to double: 100.0

C:\Users\Ganapa.Sathish\June 2023>
```

The system tray indicates it's 20:16 on June 20, 2023, with the weather as mostly cloudy at 26°C.

Conclusion: short to double conversion is possible [Implicit]

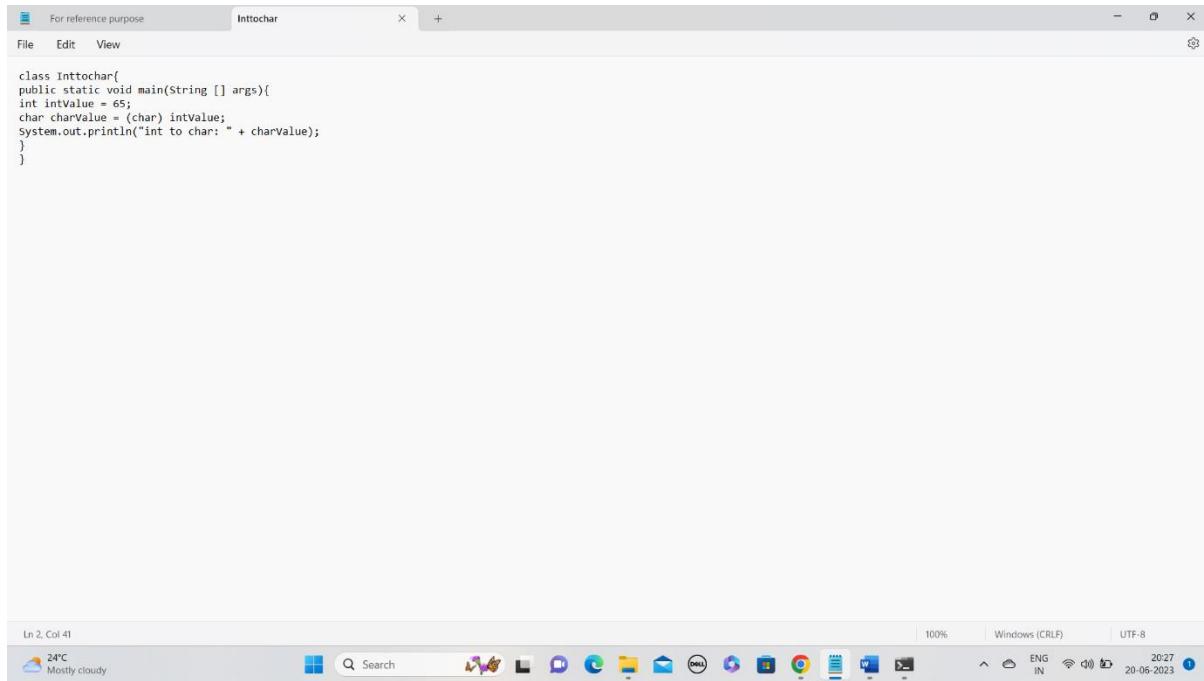
24.Short to boolean conversion:

No, it is not possible to directly convert a short to a boolean in Java.

The boolean type in Java represents a binary value of either true or false, while a short is a 16-bit signed value.

To convert a short to a boolean, would need to define own logic or condition based on your specific requirements.

25.int to char conversion:

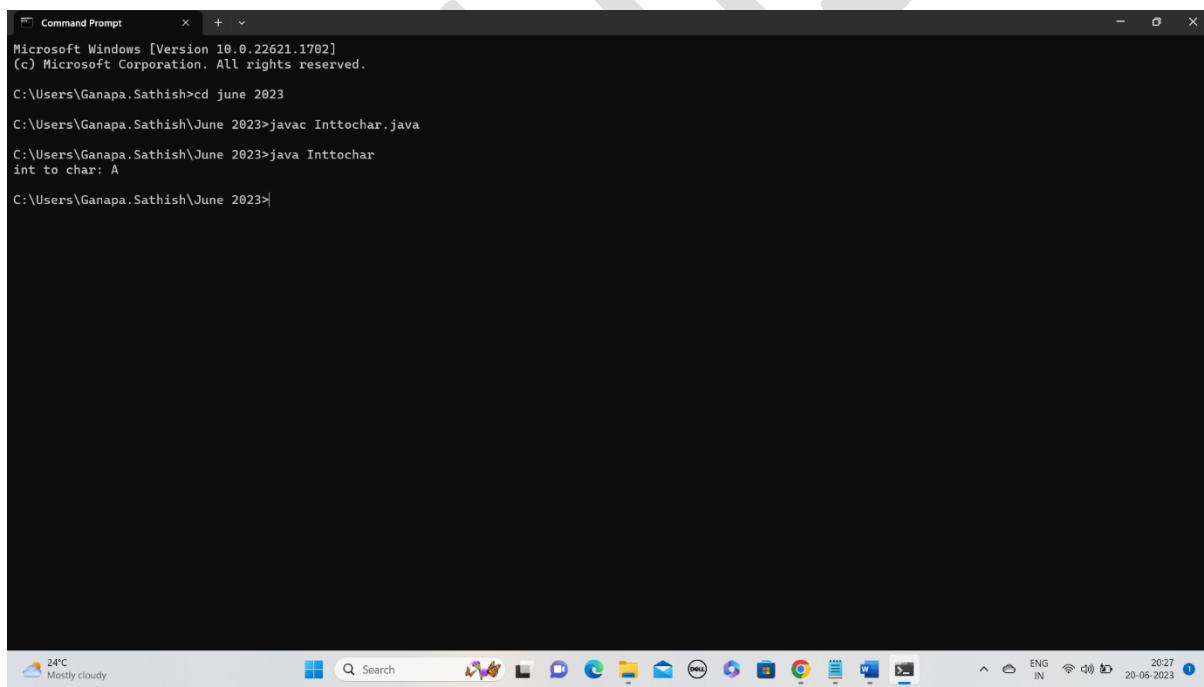


The screenshot shows a Java code editor window titled "Inttochar". The code is as follows:

```
For reference purpose Inttochar
File Edit View
class Inttochar{
public static void main(String [] args){
int intValue = 65;
char charValue = (char) intValue;
System.out.println("int to char: " + charValue);
}
}

Ln 2, Col 41
```

The status bar at the bottom indicates "Ln 2, Col 41". The system tray shows the date and time as "20-06-2023 20:27".



The screenshot shows a Command Prompt window titled "Command Prompt". The output is as follows:

```
Microsoft Windows [Version 10.0.22621.1702]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Ganapa.Sathish>cd june 2023
C:\Users\Ganapa.Sathish\June 2023>javac Inttochar.java
C:\Users\Ganapa.Sathish\June 2023>java Inttochar
int to char: A
C:\Users\Ganapa.Sathish\June 2023>
```

The status bar at the bottom indicates "20-06-2023 20:27".

Conclusion: int to char conversion is possible [Explicit]

26.int to Boolean conversion:

No, it is not possible to directly convert an int to a boolean in Java.

The boolean type in Java represents a binary value of either true or false, while an int is a 32-bit signed value that can hold a wide range of numeric values.

To convert an int to a boolean, would need to define own logic or condition based on your specific requirements

27.int to Byte conversion:

A screenshot of a Java code editor window titled "Inttobyte". The code is as follows:

```
class Inttobyte{
    public static void main(String [] args){
        int intValue = 1000;
        byte byteValue = (byte) intValue;
        System.out.println("int to byte: " + byteValue);
    }
}
```

The status bar at the bottom shows "Ln 7, Col 2". The system tray indicates it's 24°C and mostly cloudy. The taskbar includes icons for search, file explorer, and various applications.

A screenshot of a Windows Command Prompt window titled "Command Prompt". The command history shows:

```
Microsoft Windows [Version 10.0.22621.1702]
(c) Microsoft Corporation. All rights reserved.

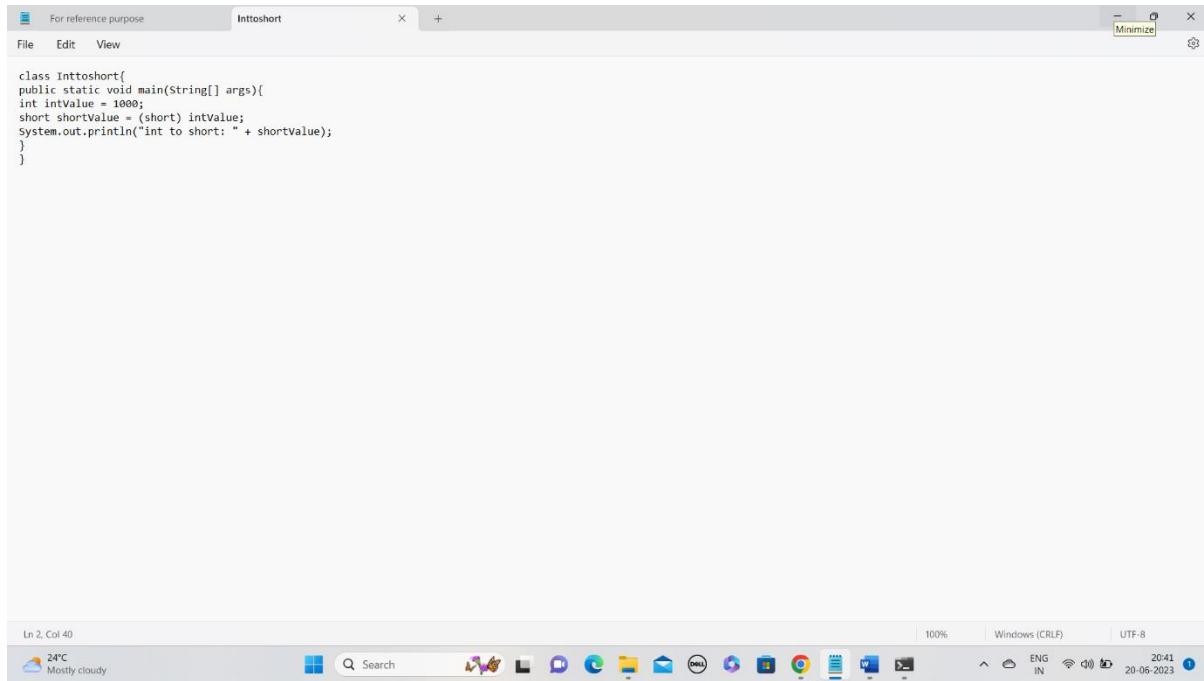
C:\Users\Ganapa.Sathish>cd june 2023
C:\Users\Ganapa.Sathish\June 2023>javac Inttobyte.java
C:\Users\Ganapa.Sathish\June 2023>java Inttobyte
int to byte: -24

C:\Users\Ganapa.Sathish\June 2023>
```

The status bar at the bottom shows "24°C" and "Mostly cloudy". The taskbar includes icons for search, file explorer, and various applications.

Conclusion: int to byte conversion is possible [Explicit]

28.int to short conversion:

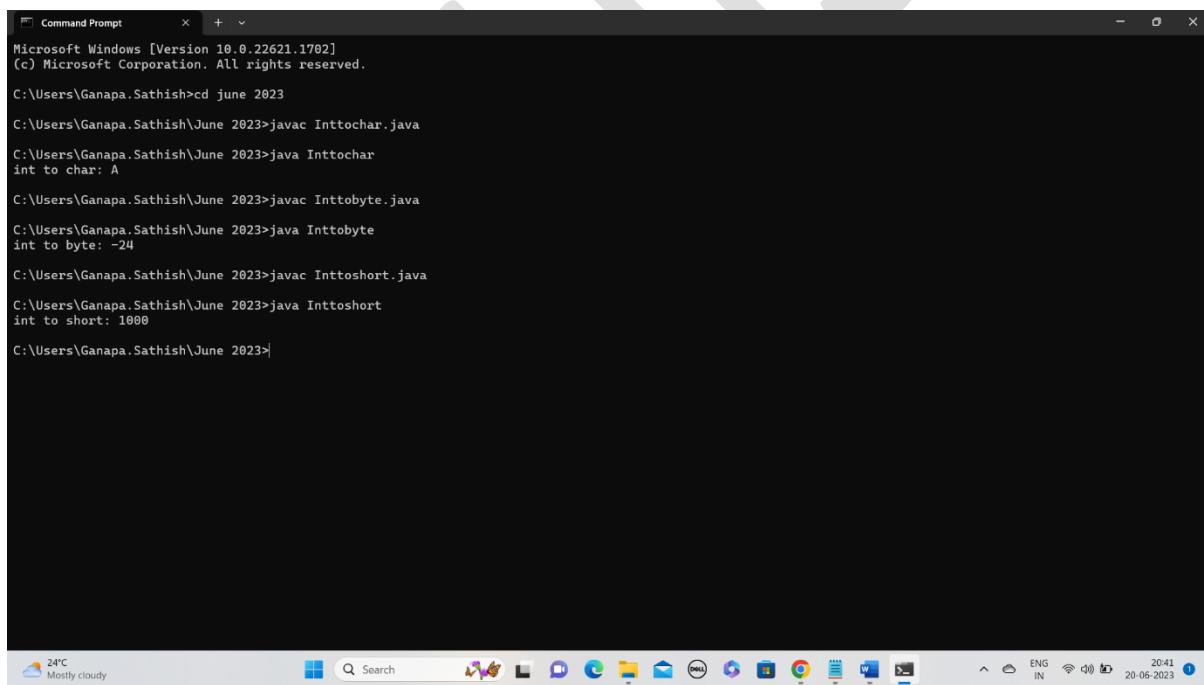


The screenshot shows a Java code editor window titled "Inttoshort". The code is as follows:

```
For reference purpose Inttoshort
File Edit View
class Inttoshort{
    public static void main(String[] args){
        int intValue = 1000;
        short shortValue = (short) intValue;
        System.out.println("int to short: " + shortValue);
    }
}

Ln 2, Col 40
```

The status bar at the bottom indicates "Ln 2, Col 40". The system tray shows the date and time as "20-06-2023 20:41".



The screenshot shows a Windows Command Prompt window titled "Command Prompt". The command history and output are as follows:

```
Microsoft Windows [Version 10.0.22621.1702]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Ganapa.Sathish>cd june 2023
C:\Users\Ganapa.Sathish\June 2023>javac Inttochar.java
C:\Users\Ganapa.Sathish\June 2023>java Inttochar
int to char: A

C:\Users\Ganapa.Sathish\June 2023>javac Inttobyte.java
C:\Users\Ganapa.Sathish\June 2023>java Inttobyte
int to byte: -24

C:\Users\Ganapa.Sathish\June 2023>javac Inttoshort.java
C:\Users\Ganapa.Sathish\June 2023>java Inttoshort
int to short: 1000

C:\Users\Ganapa.Sathish\June 2023>
```

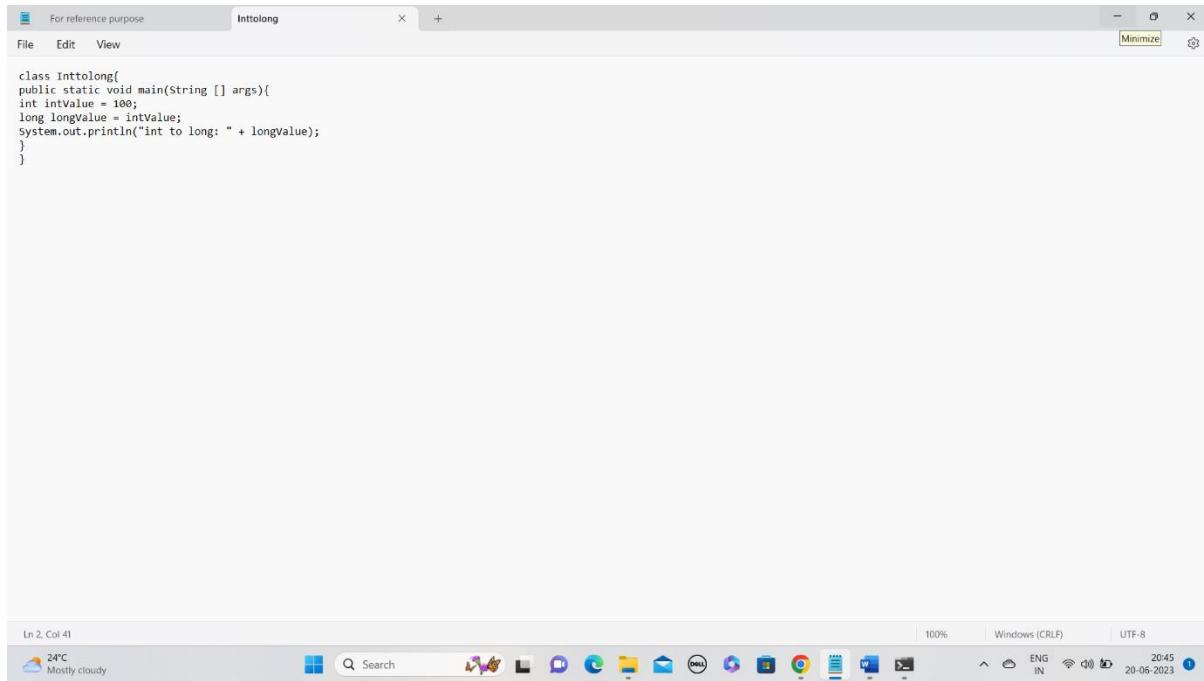
The status bar at the bottom indicates "20-06-2023 20:41".

Conclusion: int to short conversion is possible [Explicit]

29.int to int conversion:

Yes, it is possible to assign an int value to another int variable in Java. Since both variables are of the same data type, no explicit conversion is required.

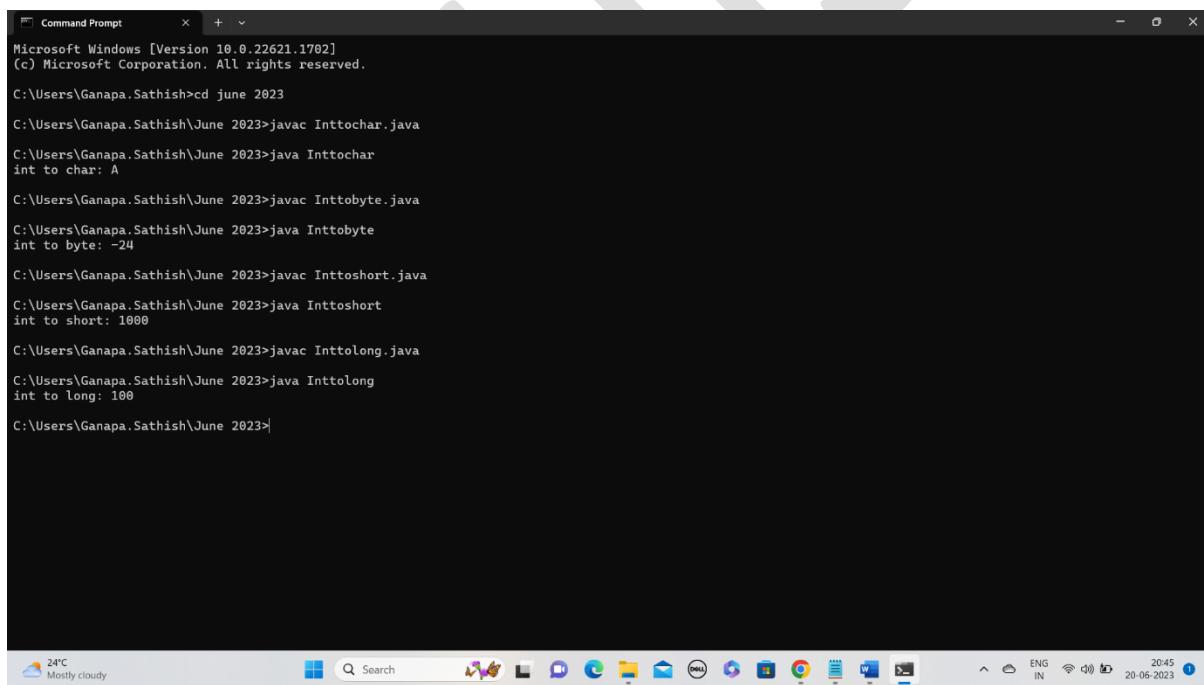
30.int to long conversion:



A screenshot of a Java code editor window titled "Inttolong". The code is as follows:

```
class Inttolong{
    public static void main(String [] args){
        int intValue = 100;
        long longValue = intValue;
        System.out.println("int to long: " + longValue);
    }
}
```

The status bar at the bottom shows "Ln 2, Col 41". The system tray indicates it's 24°C and mostly cloudy. The taskbar includes icons for search, file explorer, and various applications.



A screenshot of a Windows Command Prompt window titled "Command Prompt". The command history shows the following:

```
Microsoft Windows [Version 10.0.22621.1702]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Ganapa.Sathish>cd june 2023
C:\Users\Ganapa.Sathish\June 2023>javac Inttoint.java
C:\Users\Ganapa.Sathish\June 2023>java Inttoint
int to int: 100

C:\Users\Ganapa.Sathish\June 2023>javac Inttobyte.java
C:\Users\Ganapa.Sathish\June 2023>java Inttobyte
int to byte: -24

C:\Users\Ganapa.Sathish\June 2023>javac Inttoshort.java
C:\Users\Ganapa.Sathish\June 2023>java Inttoshort
int to short: 1000

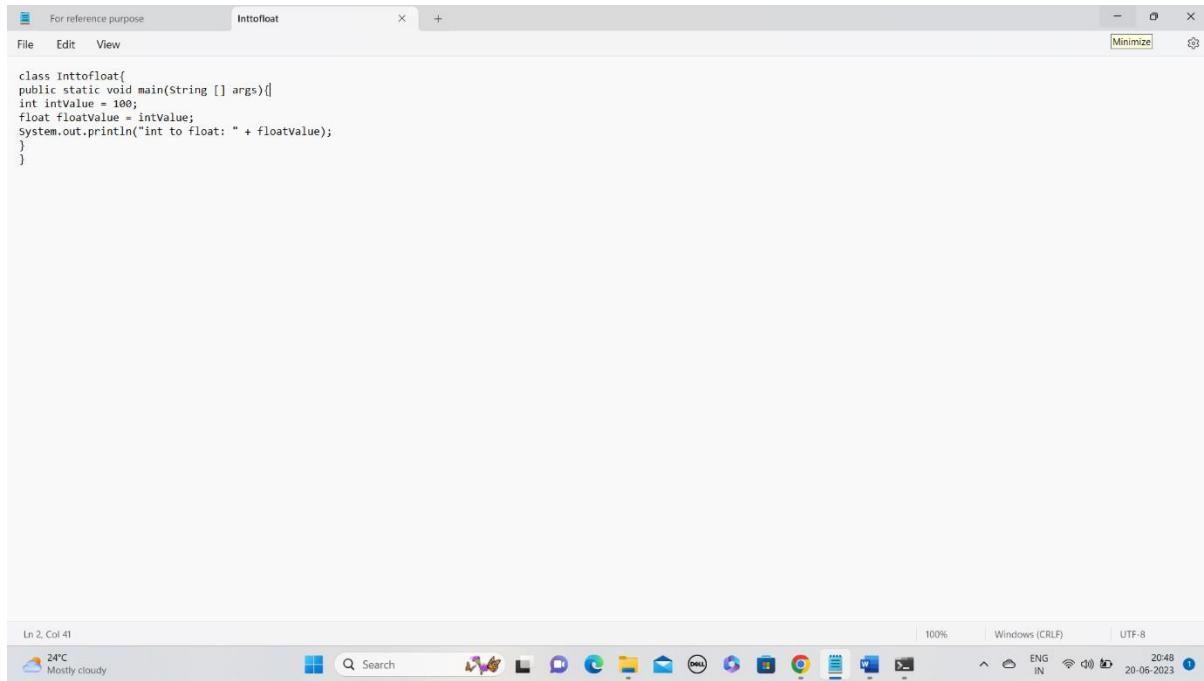
C:\Users\Ganapa.Sathish\June 2023>javac Inttolong.java
C:\Users\Ganapa.Sathish\June 2023>java Inttolong
int to long: 100

C:\Users\Ganapa.Sathish\June 2023>
```

The status bar at the bottom shows "24°C" and the date "20-06-2023". The taskbar includes icons for search, file explorer, and various applications.

Conclusion: int to long conversion is possible [Implicit]

31.int to float conversion:

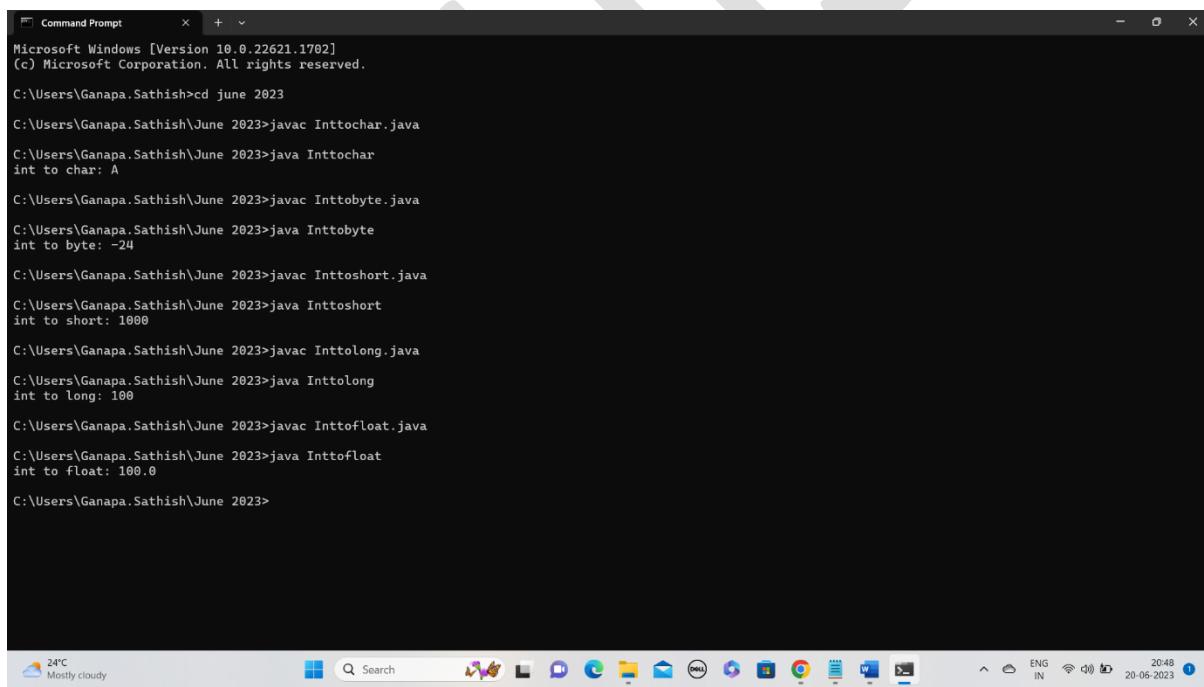


A screenshot of a Java code editor window titled "Inttofloat". The code is as follows:

```
For reference purpose Inttofloat
File Edit View
class Inttofloat{
public static void main(String [] args){
int intValue = 100;
float floatValue = intValue;
System.out.println("int to float: " + floatValue);
}
}

Ln 2, Col 41
```

The status bar at the bottom shows "100%" and "Windows (CRLF)".



A screenshot of a Windows Command Prompt window titled "Command Prompt". The command history shows the following sequence of commands and outputs:

```
Microsoft Windows [Version 10.0.22621.1702]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Ganapa.Sathish>cd june 2023
C:\Users\Ganapa.Sathish\June 2023>javac Inttointeger.java
C:\Users\Ganapa.Sathish\June 2023>java Inttointeger
int to int: 100

C:\Users\Ganapa.Sathish\June 2023>javac Inttobit.java
C:\Users\Ganapa.Sathish\June 2023>java Inttobit
int to bit: true

C:\Users\Ganapa.Sathish\June 2023>javac Inttobyte.java
C:\Users\Ganapa.Sathish\June 2023>java Inttobyte
int to byte: -24

C:\Users\Ganapa.Sathish\June 2023>javac Inttoshort.java
C:\Users\Ganapa.Sathish\June 2023>java Inttoshort
int to short: 1000

C:\Users\Ganapa.Sathish\June 2023>javac Inttolong.java
C:\Users\Ganapa.Sathish\June 2023>java Inttolong
int to long: 100

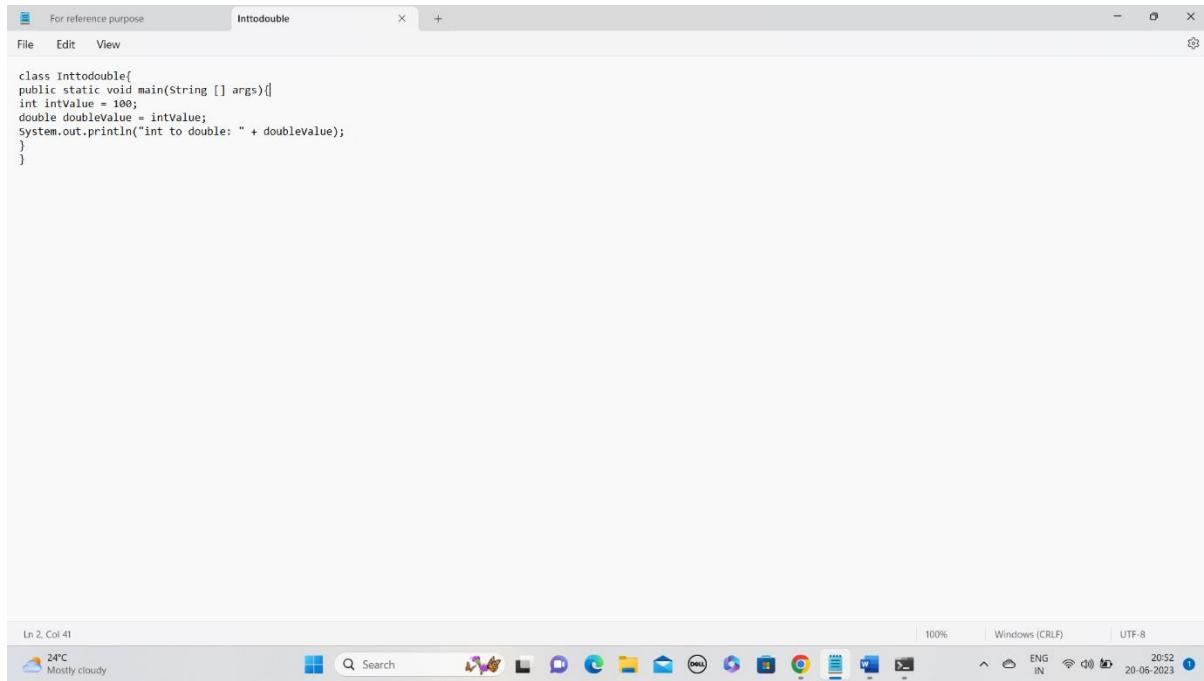
C:\Users\Ganapa.Sathish\June 2023>javac Inttofloat.java
C:\Users\Ganapa.Sathish\June 2023>java Inttofloat
int to float: 100.0

C:\Users\Ganapa.Sathish\June 2023>
```

The status bar at the bottom shows "24°C Mostly cloudy" and "20:48 20-06-2023".

Conclusion: int to float conversion is possible [Implicit]

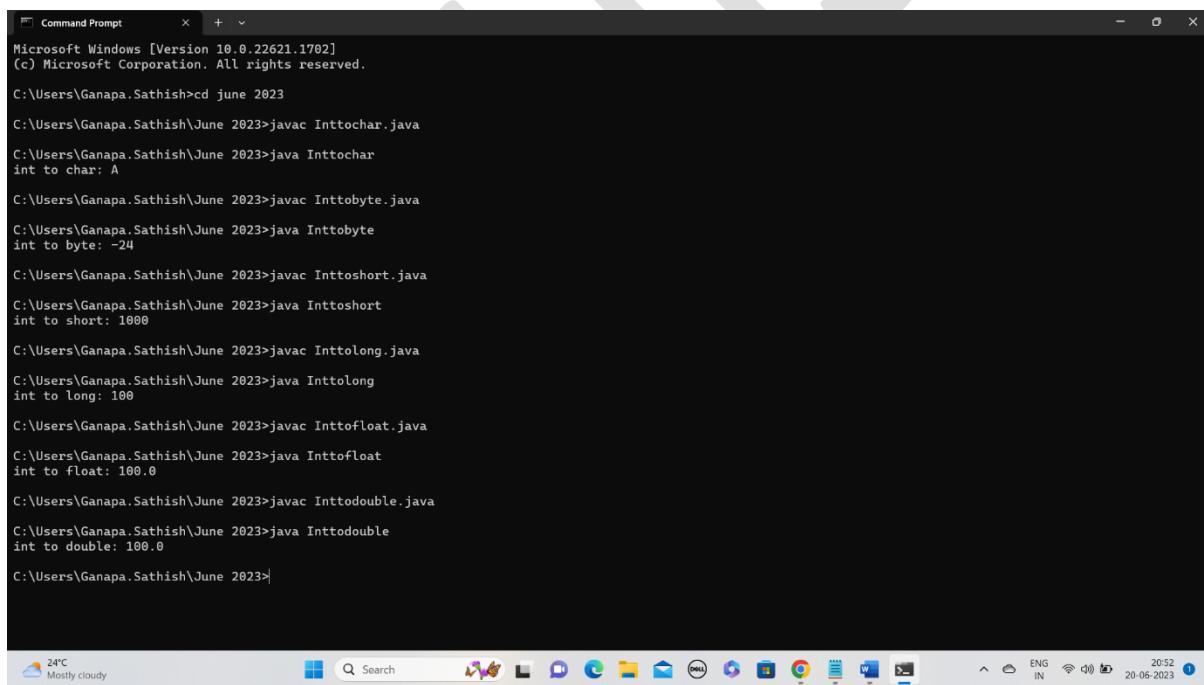
32.int to double conversion:



A screenshot of a Java code editor window titled "Inttoddble". The code is as follows:

```
class Inttoddble{
    public static void main(String [] args){
        int intValue = 100;
        double doubleValue = intValue;
        System.out.println("int to double: " + doubleValue);
    }
}
```

The status bar at the bottom shows "Ln 2, Col 41". The system tray indicates it's 24°C and mostly cloudy. The taskbar includes icons for search, file explorer, and various applications.



A screenshot of a Windows Command Prompt window titled "Command Prompt". The command history shows the execution of several Java programs:

```
Microsoft Windows [Version 10.0.22621.1702]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Ganapa.Sathish>cd june 2023
C:\Users\Ganapa.Sathish\June 2023>javac Inttuchar.java
C:\Users\Ganapa.Sathish\June 2023>java Inttuchar
int to char: A

C:\Users\Ganapa.Sathish\June 2023>javac Inttobyte.java
C:\Users\Ganapa.Sathish\June 2023>java Inttobyte
int to byte: -24

C:\Users\Ganapa.Sathish\June 2023>javac Inttoshort.java
C:\Users\Ganapa.Sathish\June 2023>java Inttoshort
int to short: 1000

C:\Users\Ganapa.Sathish\June 2023>javac Inttolong.java
C:\Users\Ganapa.Sathish\June 2023>java Inttolong
int to long: 100

C:\Users\Ganapa.Sathish\June 2023>javac Inttofloat.java
C:\Users\Ganapa.Sathish\June 2023>java Inttofloat
int to float: 100.0

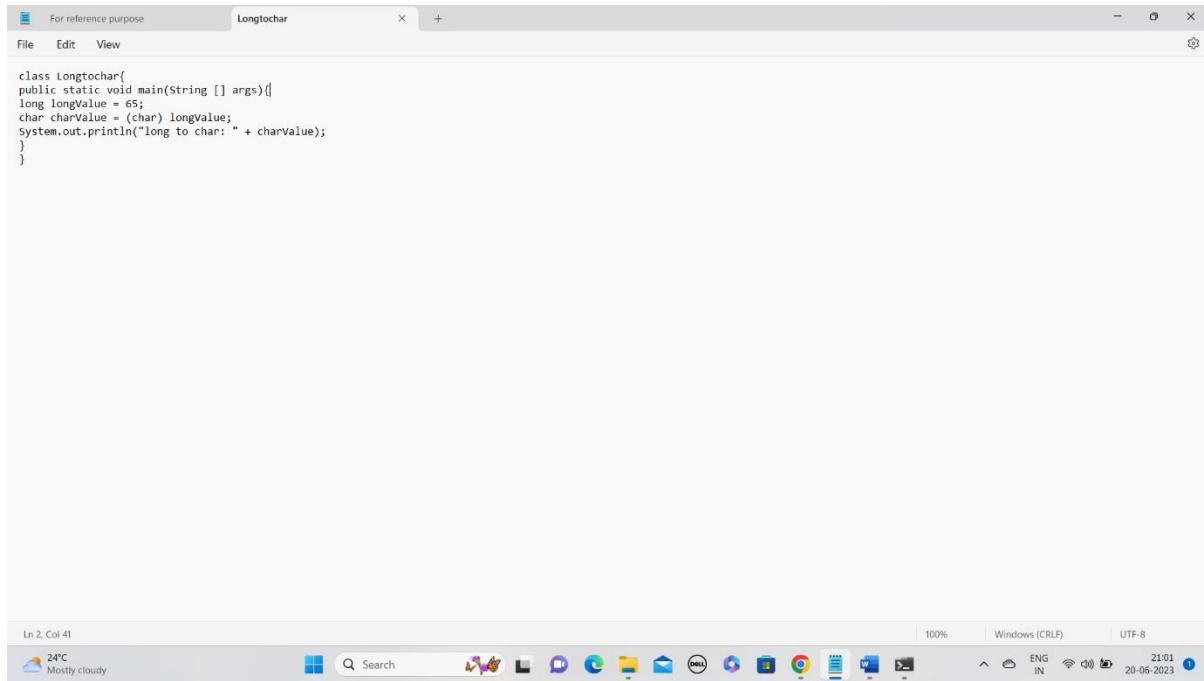
C:\Users\Ganapa.Sathish\June 2023>javac Inttoddble.java
C:\Users\Ganapa.Sathish\June 2023>java Inttoddble
int to double: 100.0

C:\Users\Ganapa.Sathish\June 2023>
```

The status bar at the bottom shows "24°C Mostly cloudy". The taskbar includes icons for search, file explorer, and various applications.

Conclusion: int to double conversion is possible [Implicit]

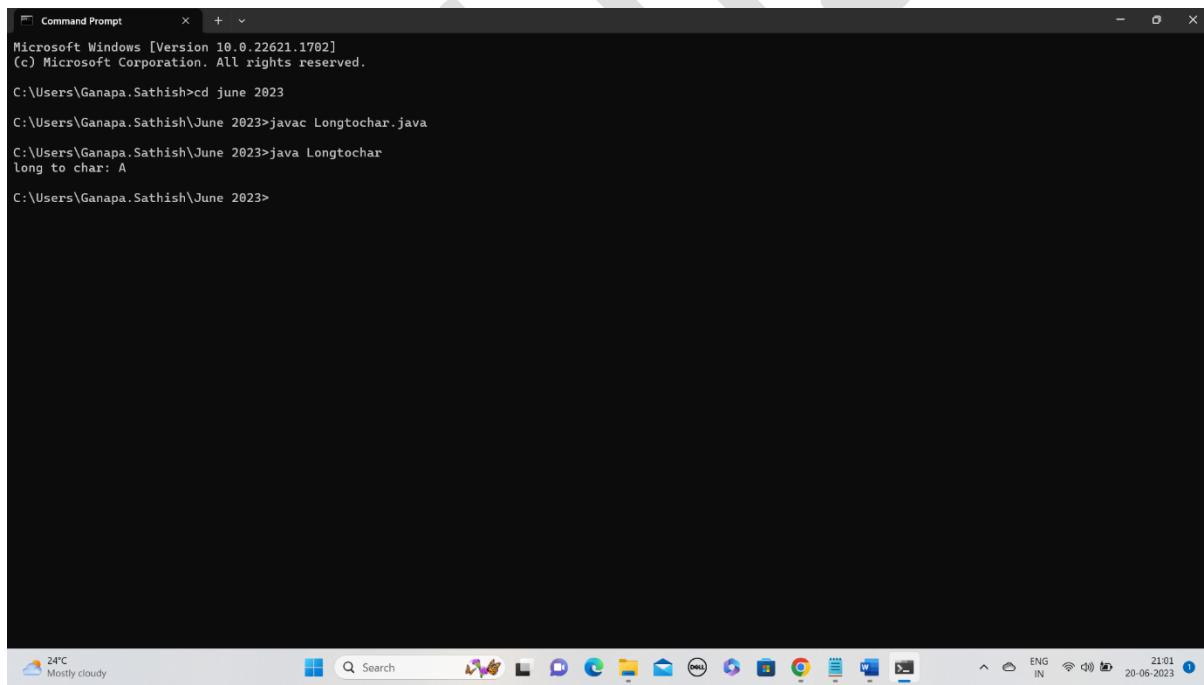
33.long to char conversion:



```
For reference purpose Longtochar X + File Edit View
class Longtochar{
    public static void main(String [] args){
        long longValue = 65;
        char charValue = (char) longValue;
        System.out.println("long to char: " + charValue);
    }
}

Ln 2, Col 41
```

The screenshot shows a Java code editor window titled "Longtochar". The code defines a class "Longtochar" with a single method "main". Inside "main", a long variable "longValue" is assigned the value 65. A character variable "charValue" is then assigned the value of "longValue" using a cast. Finally, the output is printed to the console. The status bar at the bottom indicates "Ln 2, Col 41".



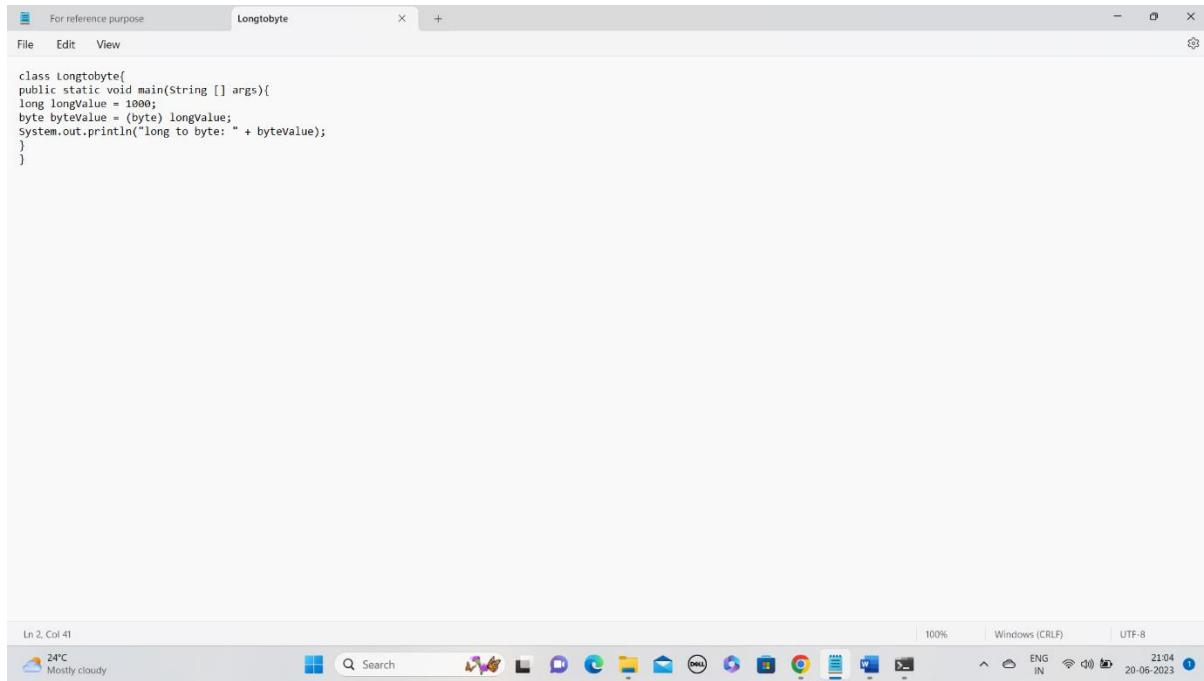
```
Command Prompt + v Microsoft Windows [Version 10.0.22621.1702]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Ganapa.Sathish>cd june 2023
C:\Users\Ganapa.Sathish\June 2023>javac Longtochar.java
C:\Users\Ganapa.Sathish\June 2023>java Longtochar
long to char: A
C:\Users\Ganapa.Sathish\June 2023>
```

The screenshot shows a Command Prompt window titled "Command Prompt". It starts with the standard Windows greeting and copyright notice. The user then changes the current directory to "june 2023". They compile a Java source file named "Longtochar.java" using the javac command. Finally, they run the compiled class using the java command, which outputs the character 'A' to the console. The status bar at the bottom indicates "21:01 20-06-2023".

Conclusion: long to char conversion is possible [Explicit]

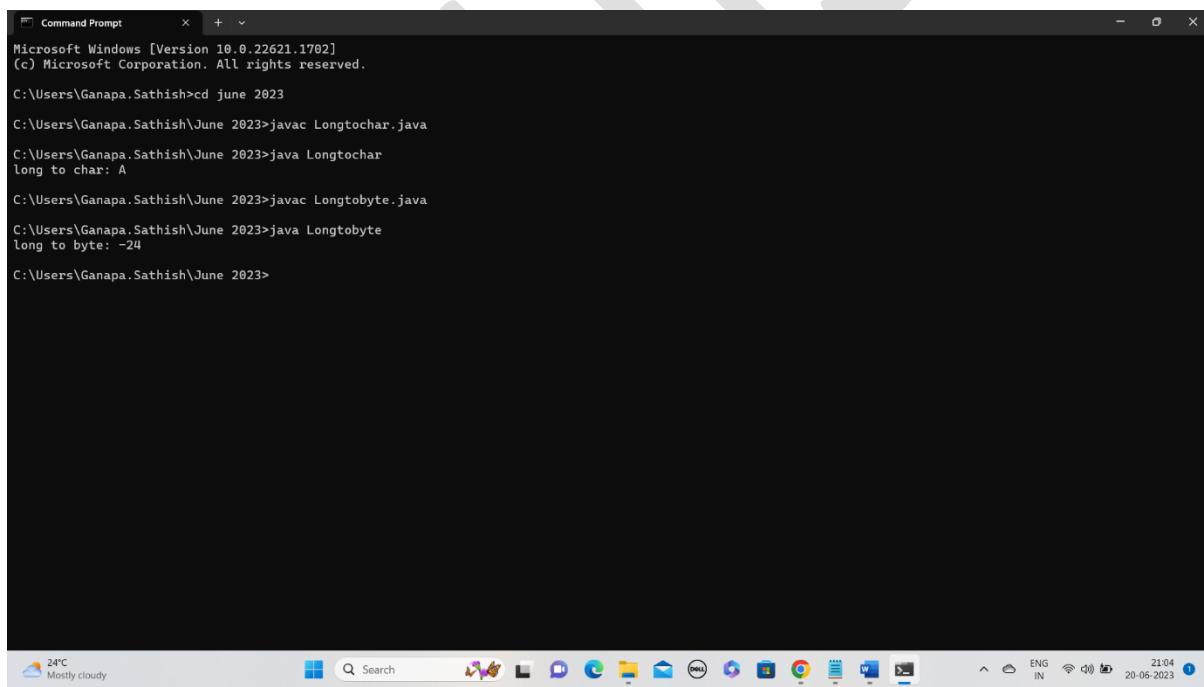
34.long to byte conversion:



```
For reference purpose Longtobyte X + File Edit View
class Longtobyte{
public static void main(String [] args){
long longValue = 1000;
byte byteValue = (byte) longValue;
System.out.println("long to Byte: " + byteValue);
}
}

Ln 2, Col 41
```

The screenshot shows a Java code editor window titled "Longtobyte". The code defines a class "Longtobyte" with a static main method. It declares a long variable "longValue" and a byte variable "byteValue". The byte variable is initialized by casting the long variable to a byte using the (byte) operator. Finally, it prints the result to the console. The status bar at the bottom indicates "Ln 2, Col 41".



```
Command Prompt + Microsoft Windows [Version 10.0.22621.1702]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Ganapa.Sathish>cd june 2023
C:\Users\Ganapa.Sathish\June 2023>javac Longtochar.java
C:\Users\Ganapa.Sathish\June 2023>java Longtochar
long to char: A

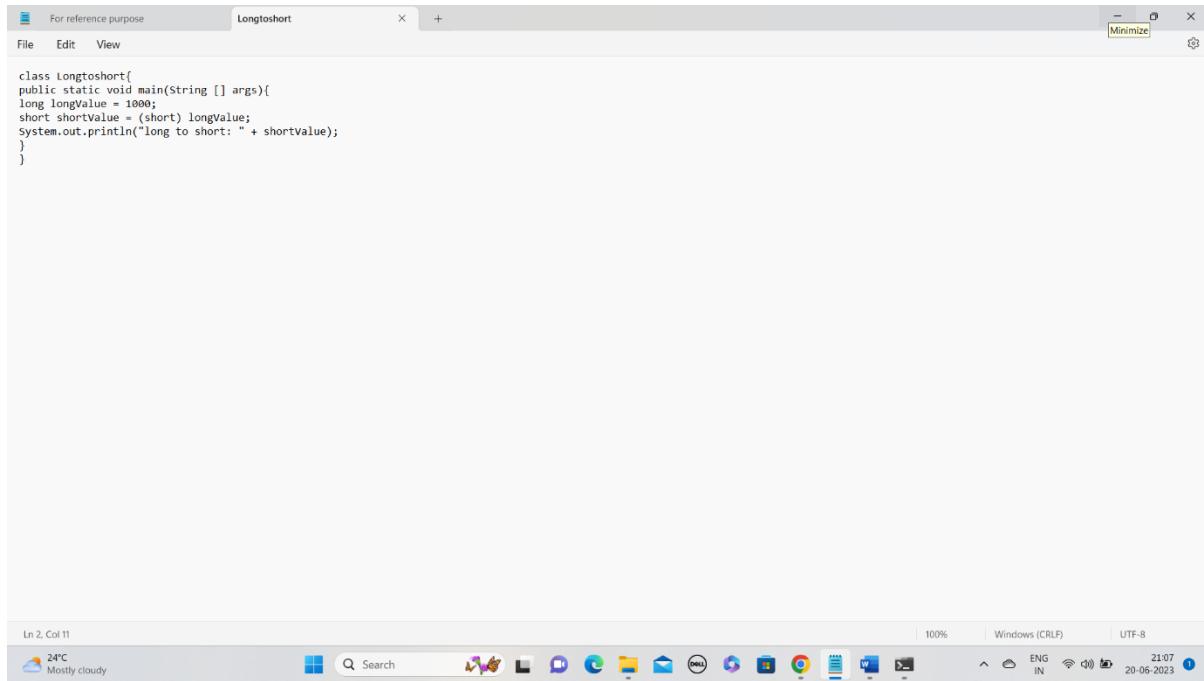
C:\Users\Ganapa.Sathish\June 2023>javac Longtobyte.java
C:\Users\Ganapa.Sathish\June 2023>java Longtobyte
long to byte: -24

C:\Users\Ganapa.Sathish\June 2023>
```

The screenshot shows a Windows Command Prompt window titled "Command Prompt". It displays the execution of two Java programs. First, it compiles "Longtochar.java" and runs it, outputting "long to char: A". Then, it compiles "Longtobyte.java" and runs it, outputting "long to byte: -24". The status bar at the bottom indicates "24°C Mostly cloudy".

Conclusion: long to byte conversion is possible [Explicit]

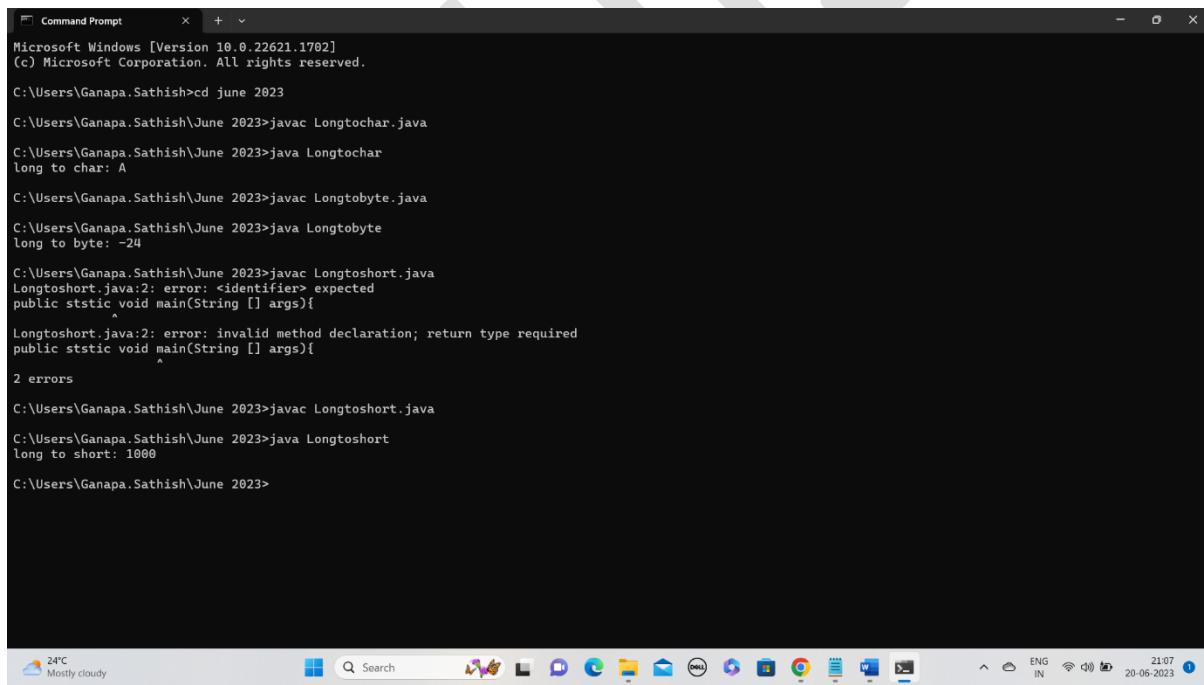
35.long to short conversion:



```
For reference purpose Longtoshort X + Minimize
File Edit View
class Longtoshort{
public static void main(String [] args){
long longValue = 1000;
short shortValue = (short) longValue;
System.out.println("long to short: " + shortValue);
}
}

Ln 2, Col 11
```

The screenshot shows a Java code editor window titled "Longtoshort". The code defines a class with a main method that prints the value of a long variable converted to a short variable. The code editor interface includes tabs, a toolbar, and a status bar at the bottom.



```
Command Prompt + 
Microsoft Windows [Version 10.0.22621.1702]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Ganapa.Sathish>cd june 2023
C:\Users\Ganapa.Sathish\June 2023>javac Longtochar.java
C:\Users\Ganapa.Sathish\June 2023>java Longtochar
long to char: A

C:\Users\Ganapa.Sathish\June 2023>javac Longtobyte.java
C:\Users\Ganapa.Sathish\June 2023>java Longtobyte
long to byte: -24

C:\Users\Ganapa.Sathish\June 2023>javac Longtoshort.java
Longtoshort.java:2: error: <identifier> expected
public sttic void main(String [] args){
          ^
Longtoshort.java:2: error: invalid method declaration; return type required
public sttic void main(String [] args){
          ^
2 errors

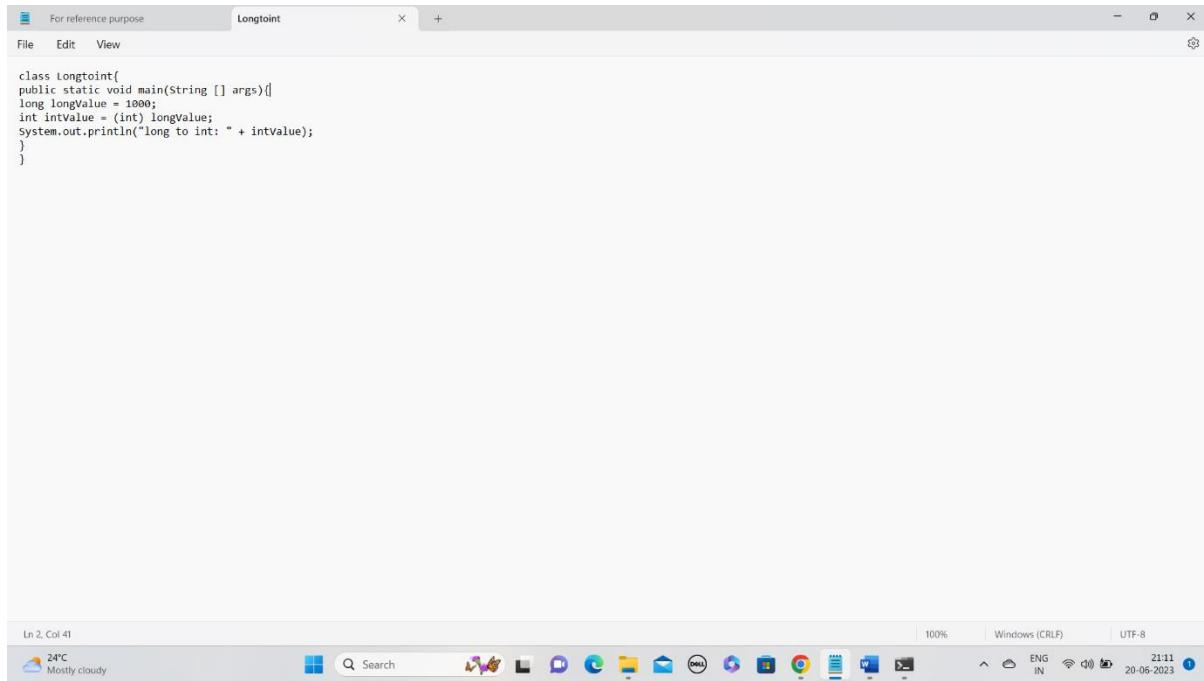
C:\Users\Ganapa.Sathish\June 2023>javac Longtoshort.java
C:\Users\Ganapa.Sathish\June 2023>java Longtoshort
long to short: 1000

C:\Users\Ganapa.Sathish\June 2023>
```

The screenshot shows a Windows Command Prompt window. It first runs several Java compilation and execution commands in the directory "june 2023". It then attempts to compile "Longtoshort.java" but fails due to syntax errors. Finally, it successfully runs "Longtoshort.java" and prints the output "long to short: 1000". The command prompt interface includes a title bar, a menu bar, and a status bar at the bottom.

Conclusion: long to short conversion is possible [Explicit]

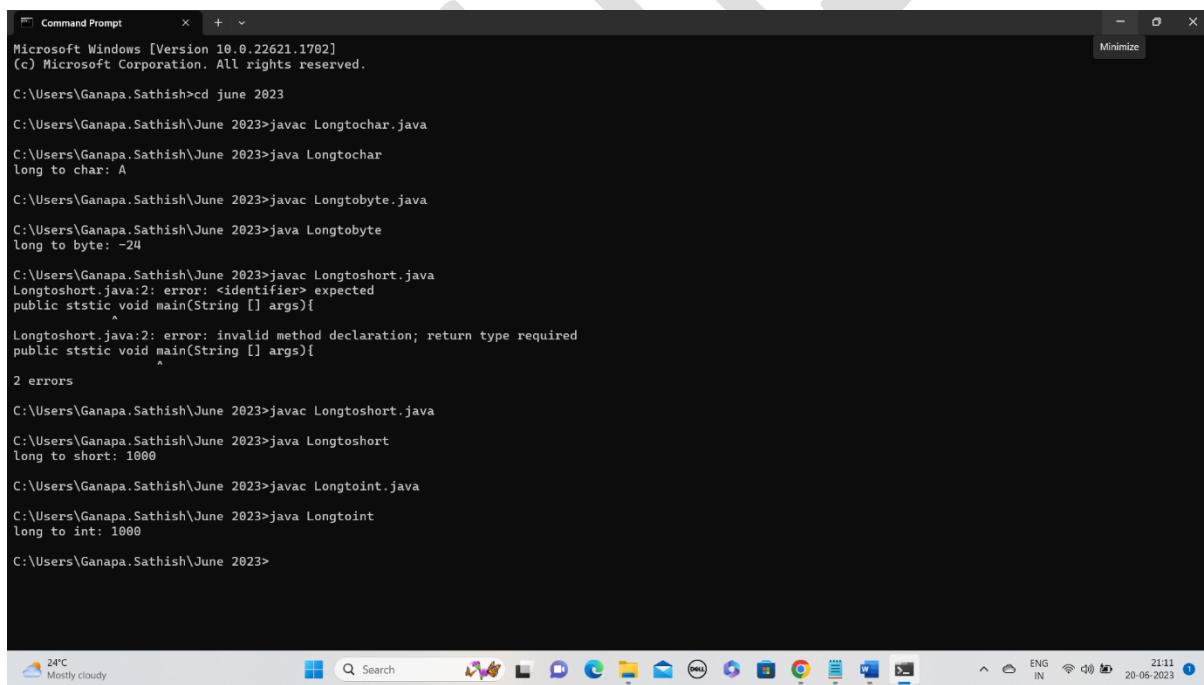
36.long to int conversion:



```
For reference purpose Longtoint X + File Edit View
class Longtoint{
public static void main(String [] args){
long longValue = 1000;
int intValue = (int) longValue;
System.out.println("long to int: " + intValue);
}
}

Ln 2, Col 41
```

The screenshot shows a Java code editor window titled "Longtoint". The code defines a class "Longtoint" with a single method "main". Inside "main", a long variable "longValue" is assigned the value 1000. An explicit cast "(int)" is used to convert "longValue" to an "int" variable "intValue". Finally, "intValue" is printed to the console using `System.out.println`. The status bar at the bottom indicates "Ln 2, Col 41".



```
Command Prompt - Microsoft Windows [Version 10.0.22621.1702]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Ganapa.Sathish>cd june 2023
C:\Users\Ganapa.Sathish\June 2023>javac Longtochar.java
C:\Users\Ganapa.Sathish\June 2023>java Longtochar
long to char: A

C:\Users\Ganapa.Sathish\June 2023>javac Longtobyte.java
C:\Users\Ganapa.Sathish\June 2023>java Longtobyte
long to byte: -24

C:\Users\Ganapa.Sathish\June 2023>javac Longtoshort.java
Longtoshort.java:2: error: <identifier> expected
public sttic void main(String [] args){
^
Longtoshort.java:2: error: invalid method declaration; return type required
public sttic void main(String [] args){
^
2 errors

C:\Users\Ganapa.Sathish\June 2023>javac Longtoshort.java
C:\Users\Ganapa.Sathish\June 2023>java Longtoshort
long to short: 1000

C:\Users\Ganapa.Sathish\June 2023>javac Longtoint.java
C:\Users\Ganapa.Sathish\June 2023>java Longtoint
long to int: 1000

C:\Users\Ganapa.Sathish\June 2023>
```

The screenshot shows a Windows Command Prompt window titled "Command Prompt". It displays the execution of several Java programs. First, it runs "Longtochar.java", which prints "long to char: A". Then, it runs "Longtobyte.java", which prints "long to byte: -24". After that, it attempts to run "Longtoshort.java", which fails due to compilation errors. Finally, it runs "Longtoint.java", which prints "long to int: 1000". The status bar at the bottom indicates "21:11 20-06-2023".

Conclusion: long to int conversion is possible [Explicit]

37.long to long conversion:

In Java, it is not necessary to explicitly convert a long to a long since they are the same data type. Both the source and target types are already long, so no conversion is needed. You can directly assign a long value to a long variable without any casting or conversion.

38.long to float conversion:

A screenshot of a Java code editor window titled "Longtofloat". The code is as follows:

```
class Longtofloat{
    public static void main(String args[]){
        long longValue = 1000L;
        float floatValue = (float) longValue;
        System.out.println("long to float: " + floatValue);
    }
}
```

The status bar at the bottom shows "Ln 2, Col 40". The system tray indicates it's 24°C and mostly cloudy. The taskbar includes icons for search, file explorer, and various applications.

A screenshot of a Windows Command Prompt window titled "Command Prompt". The command history shows the following sequence of commands and their outputs:

```
C:\Users\Ganapa.Sathish\June 2023>java Longtochar
long to char: A

C:\Users\Ganapa.Sathish\June 2023>javac Longtobyte.java
C:\Users\Ganapa.Sathish\June 2023>java Longtobyte
long to byte: -24

C:\Users\Ganapa.Sathish\June 2023>javac Longtoshort.java
Longtoshort.java:2: error: <identifier> expected
public static void main(String [] args){
           ^
Longtoshort.java:2: error: invalid method declaration; return type required
public static void main(String [] args){
           ^
2 errors

C:\Users\Ganapa.Sathish\June 2023>javac Longtoshort.java
C:\Users\Ganapa.Sathish\June 2023>java Longtoshort
long to short: 1000

C:\Users\Ganapa.Sathish\June 2023>javac Longtoint.java
C:\Users\Ganapa.Sathish\June 2023>java Longtoint
long to int: 1000

C:\Users\Ganapa.Sathish\June 2023>javac Longtfloat.java
javac: file not found: Longtfloat.java
Usage: javac <options> <source files>
use -help for a list of possible options

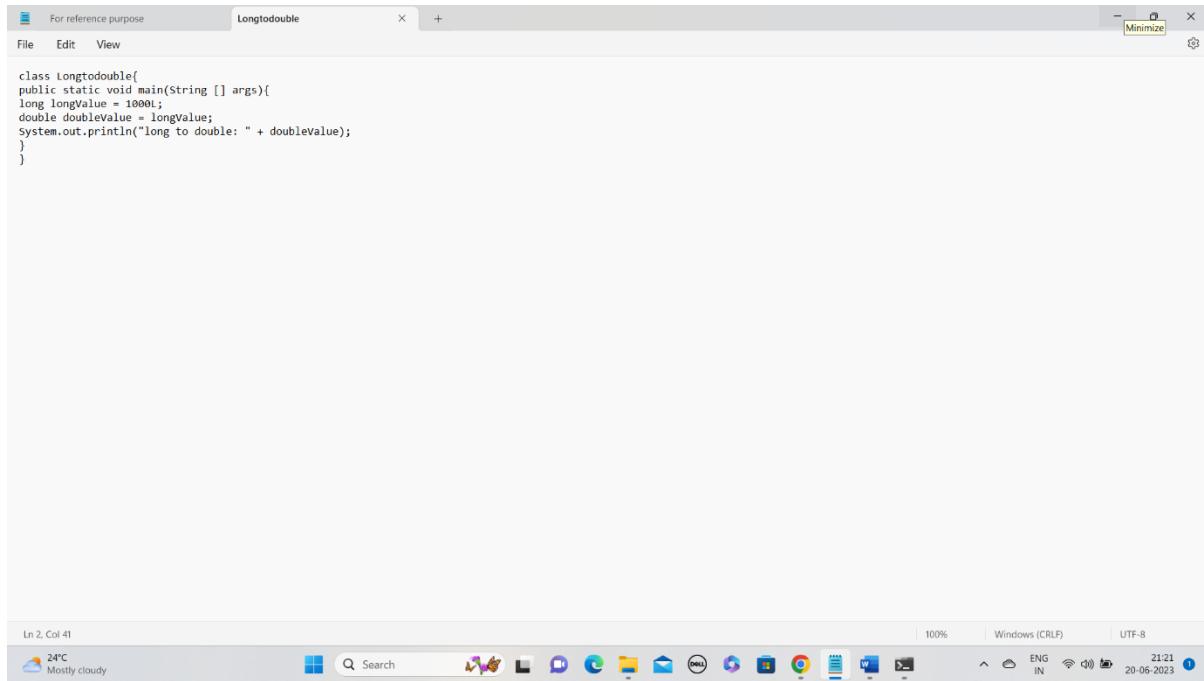
C:\Users\Ganapa.Sathish\June 2023>javac Longtfloat.java
C:\Users\Ganapa.Sathish\June 2023>java Longtfloat
long to float: 1000.0

C:\Users\Ganapa.Sathish\June 2023>
```

The status bar at the bottom shows "24°C" and "Mostly cloudy". The taskbar includes icons for search, file explorer, and various applications.

Conclusion: long to float conversion is possible [Explicit]

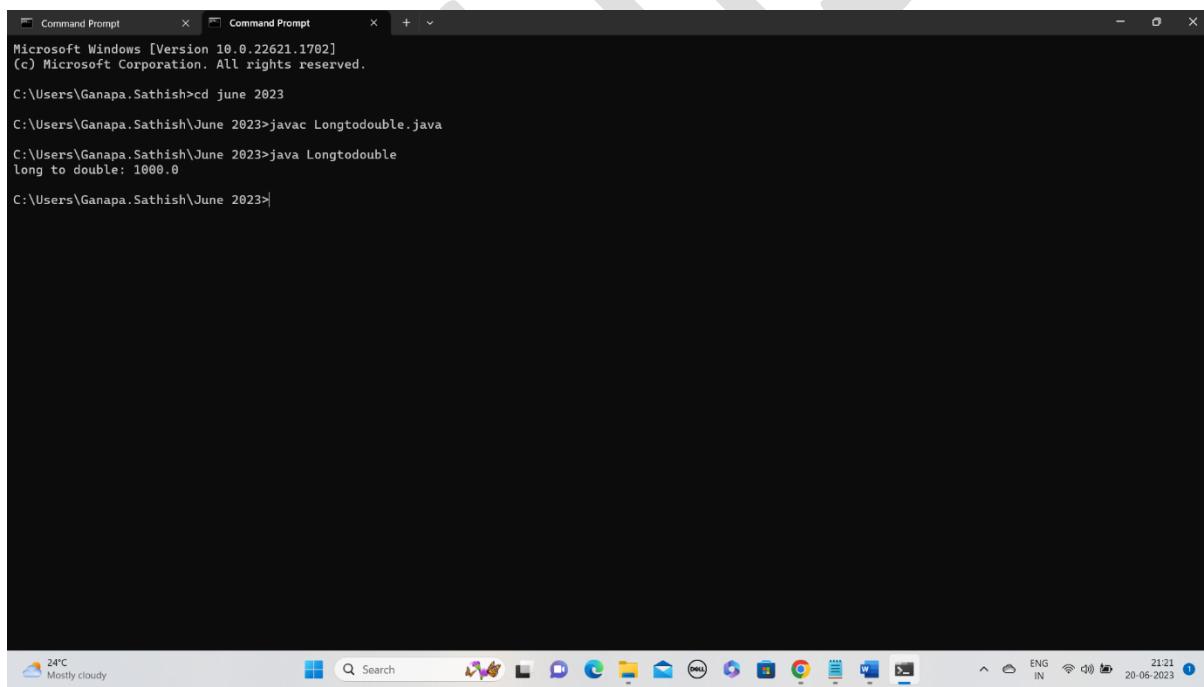
39.long to double conversion:



```
For reference purpose Longtодouble X + Minimize
File Edit View
class Longtодouble{
public static void main(String [] args){
long longValue = 1000L;
double doubleValue = longValue;
System.out.println("long to double: " + doubleValue);
}
}

Ln 2, Col 41
```

The screenshot shows a Java code editor window titled "Longtодouble". The code defines a class with a main method that converts a long value to a double and prints it. The code editor interface includes tabs, a toolbar, and status bars at the bottom.



```
Command Prompt Command Prompt + Microsoft Windows [Version 10.0.22621.1702]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Ganapa.Sathish>cd june 2023
C:\Users\Ganapa.Sathish\June 2023>javac Longtодouble.java
C:\Users\Ganapa.Sathish\June 2023>java Longtодouble
long to double: 1000.0
C:\Users\Ganapa.Sathish\June 2023>
```

The screenshot shows a Windows Command Prompt window. It starts by navigating to the directory "june 2023". Then, it compiles the Java source file "Longtодouble.java" using the javac command. Finally, it runs the compiled Java program using the java command, which outputs "long to double: 1000.0". The command prompt interface includes tabs, a toolbar, and status bars at the bottom.

Conclusion: long to double conversion is possible [Implicit]

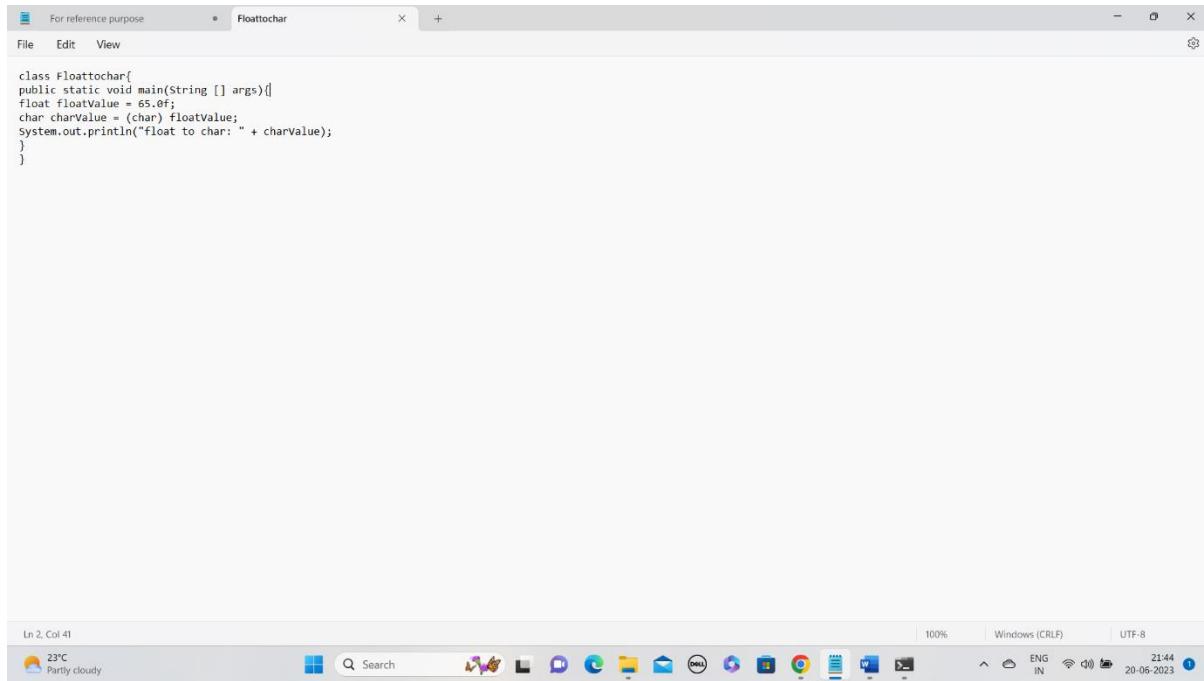
40.long to boolean conversion:

No, it is not possible to directly convert a long to a boolean in Java.

The boolean data type can only have two possible values: true or false. On the other hand, a long is a 64-bit signed integer type and can have a wide range of values.

To convert a long to a boolean, you need to specify a condition or comparison that determines whether the long value meets a specific condition.

41.float to char conversion:

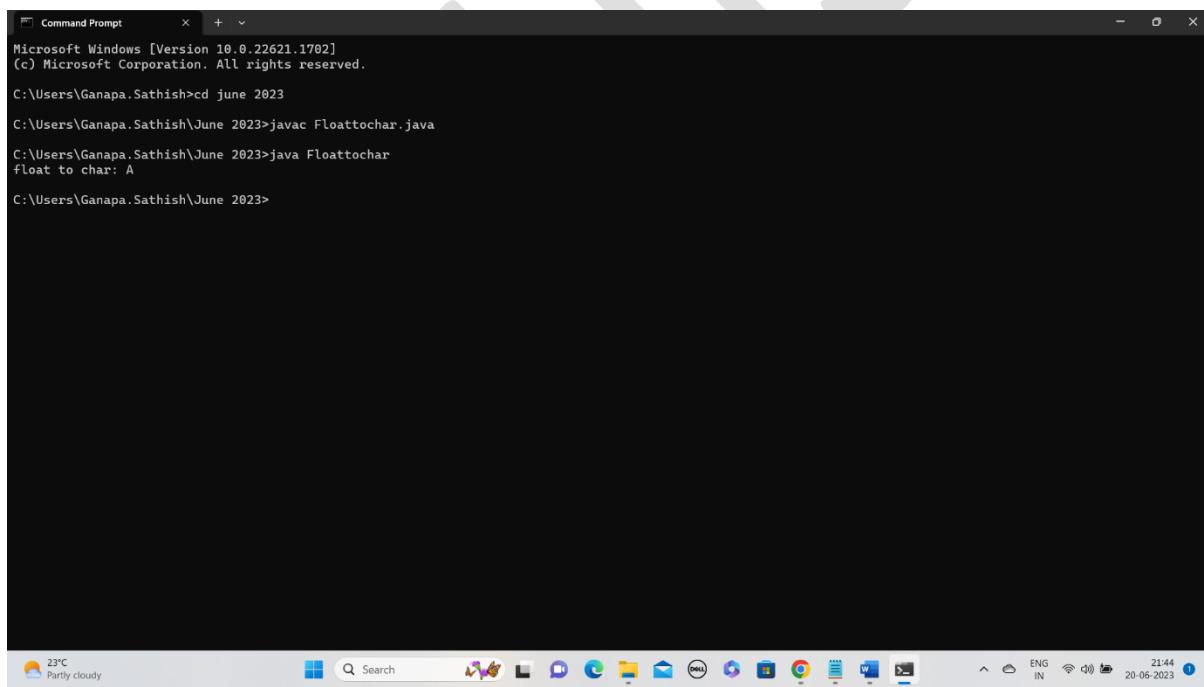


```
For reference purpose Floattochar
File Edit View
class Floattochar{
public static void main(String [] args){
float floatValue = 65.0f;
char charValue = (char) floatValue;
System.out.println("float to char: " + charValue);
}
}

Ln 2, Col 41
```

23°C Partly cloudy 100% Windows (CRLF) UTF-8

ENG IN 21:44 20-06-2023



```
Command Prompt
Microsoft Windows [Version 10.0.22621.1702]
(c) Microsoft Corporation. All rights reserved.

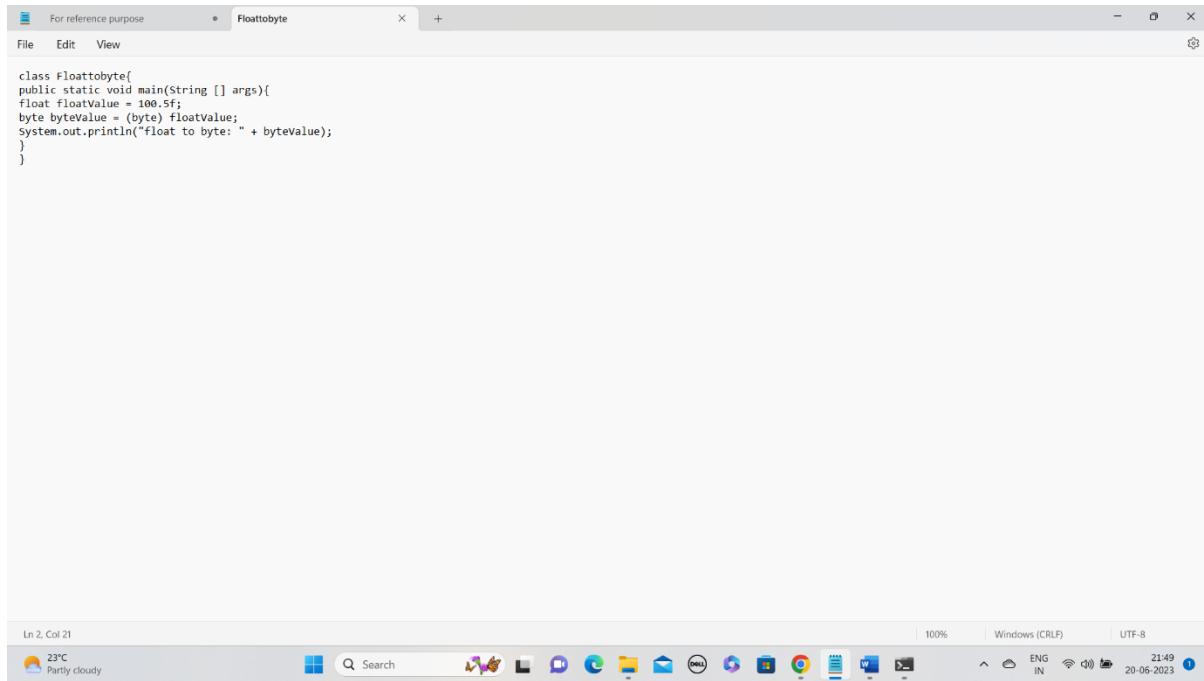
C:\Users\Ganapa.Sathish>cd june 2023
C:\Users\Ganapa.Sathish\June 2023>javac Floattochar.java
C:\Users\Ganapa.Sathish\June 2023>java Floattochar
float to char: A
C:\Users\Ganapa.Sathish\June 2023>
```

23°C Partly cloudy 100% Windows (CRLF) UTF-8

ENG IN 21:44 20-06-2023

Conclusion: float to char conversion is possible [Explicit]

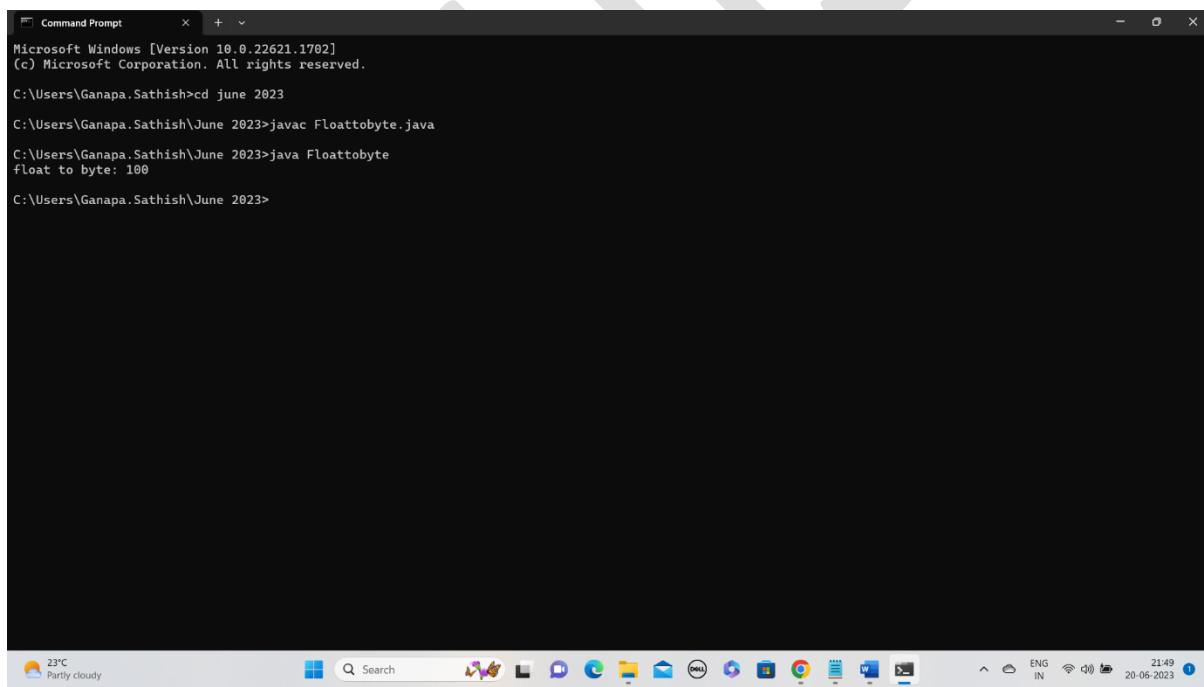
42.float to byte conversion:



A screenshot of a Java code editor window titled "Floattobyte". The code is as follows:

```
class Floattobyte{
    public static void main(String [] args){
        float floatValue = 100.5f;
        byte byteValue = (byte) floatValue;
        System.out.println("float to byte: " + byteValue);
    }
}
```

The status bar at the bottom shows "Ln 2, Col 21". The system tray indicates it's 23°C and partly cloudy. The taskbar includes icons for search, file explorer, mail, and other system applications.



A screenshot of a Command Prompt window titled "Command Prompt". The output is:

```
Microsoft Windows [Version 10.0.22621.1702]
(c) Microsoft Corporation. All rights reserved.

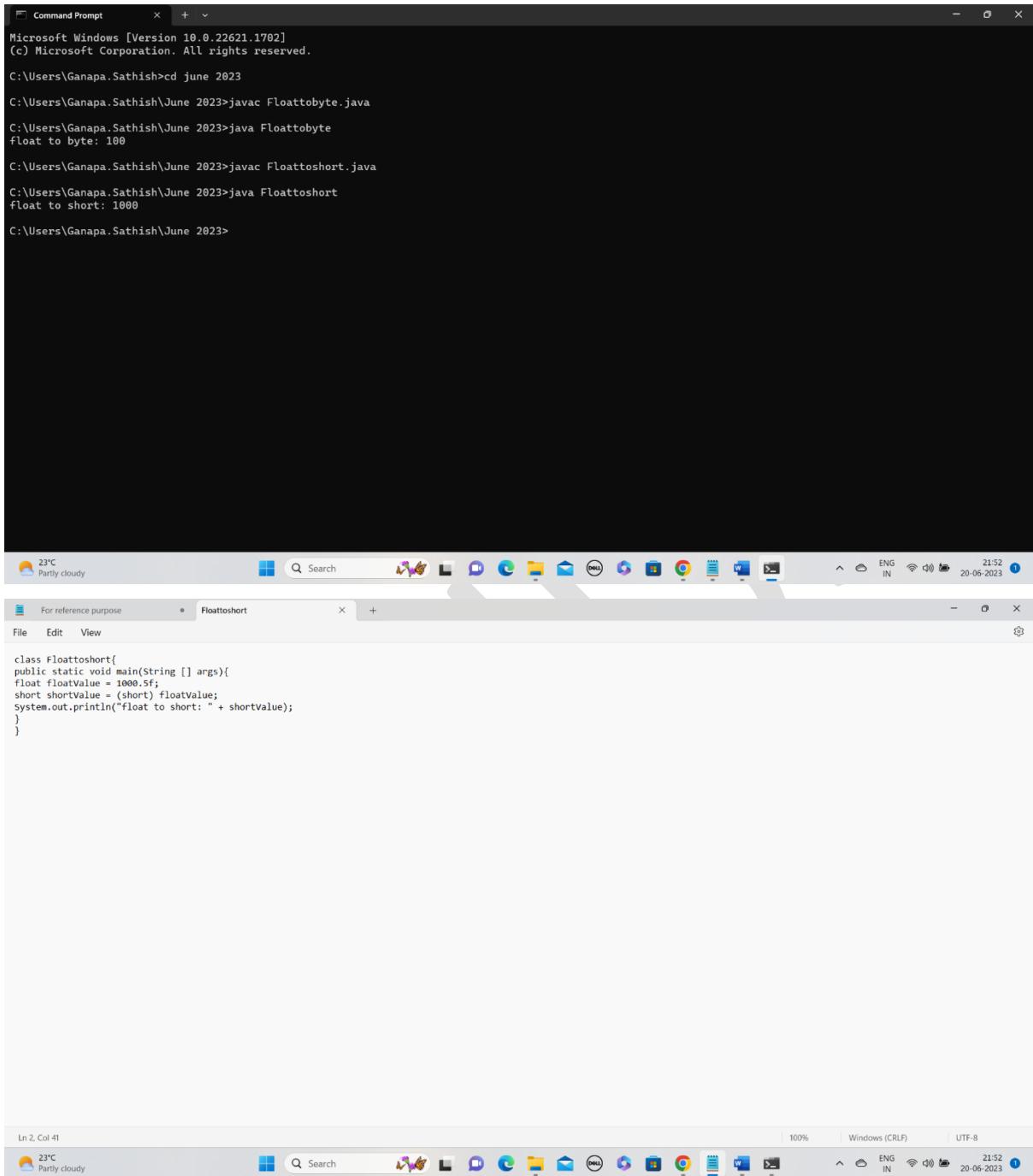
C:\Users\Ganapa.Sathish>cd june 2023
C:\Users\Ganapa.Sathish\June 2023>javac Floattobyte.java
C:\Users\Ganapa.Sathish\June 2023>java Floattobyte
float to byte: 100

C:\Users\Ganapa.Sathish\June 2023>
```

The status bar at the bottom shows "23°C" and "Partly cloudy". The taskbar includes icons for search, file explorer, mail, and other system applications.

Conclusion: float to byte conversion is possible [Explicit]

43.float to short conversion:



The image shows a Windows desktop environment with three open windows:

- Command Prompt**: Shows the output of a Java program. The user navigates to the directory C:\Users\Ganapa.Sathish\June 2023, compiles the file Floattobyte.java, and runs it. The output is "float to byte: 100".
- Notepad**: Titled "Floattoshort", it contains the Java code for explicit float-to-short conversion.
- Task View**: Shows a list of recently used applications including Microsoft Edge, File Explorer, and various system icons.

```
Microsoft Windows [Version 10.0.22621.1702]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Ganapa.Sathish>cd june 2023
C:\Users\Ganapa.Sathish\June 2023>javac Floattobyte.java
C:\Users\Ganapa.Sathish\June 2023>java Floattobyte
float to byte: 100

C:\Users\Ganapa.Sathish\June 2023>javac Floattoshort.java
C:\Users\Ganapa.Sathish\June 2023>java Floattoshort
float to short: 1000

C:\Users\Ganapa.Sathish\June 2023>
```

```
For reference purpose Floattoshort
File Edit View

class Floattoshort{
public static void main(String [] args){
float floatValue = 1000.5f;
short shortValue = (short) floatValue;
System.out.println("float to short: " + shortValue);
}
}
```

Conclusion: float to short conversion is possible [Explicit]

44.float to int conversion:

A screenshot of a Java code editor window titled "Floattoint". The code is as follows:

```
class Floattoint{
    public static void main(String [] args){
        float floatValue = 123.45f;
        int intValue = (int) floatValue;
        System.out.println("float to int: " + intValue);
    }
}
```

The status bar at the bottom shows "Ln 2, Col 41". The system tray indicates it's 23°C and partly cloudy. The taskbar includes icons for search, file explorer, and various applications.

A screenshot of a Windows Command Prompt window titled "Command Prompt". The command history shows the following:

```
Microsoft Windows [Version 10.0.22621.1702]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Ganapa.Sathish>cd june 2023
C:\Users\Ganapa.Sathish\June 2023>javac Floattobyte.java
C:\Users\Ganapa.Sathish\June 2023>java Floattobyte
float to byte: 100

C:\Users\Ganapa.Sathish\June 2023>javac Floattoshort.java
C:\Users\Ganapa.Sathish\June 2023>java Floattoshort
float to short: 1000

C:\Users\Ganapa.Sathish\June 2023>javac Floattoint.java
C:\Users\Ganapa.Sathish\June 2023>java Floattoint
float to int: 123

C:\Users\Ganapa.Sathish\June 2023>
```

The status bar at the bottom shows "23°C Partly cloudy". The taskbar includes icons for search, file explorer, and various applications.

Conclusion:Float to int conversion is possible [Explicit]

45.float to long conversion:

A screenshot of a Java code editor window titled "Floattolong". The code is as follows:

```
class Floattolong{
    public static void main(String [] args){
        float floatValue = 123.45f;
        long longValue = (long) floatValue;
        System.out.println("float to long: " + longValue);
    }
}
```

The status bar at the bottom shows "Ln 2, Col 41". The system tray indicates it's 23°C and partly cloudy. The taskbar includes icons for search, file explorer, and various applications.

A screenshot of a Windows Command Prompt window titled "Command Prompt". The session log is as follows:

```
Microsoft Windows [Version 10.0.22621.1702]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Ganapa.Sathish>cd june 2023
C:\Users\Ganapa.Sathish\June 2023>javac Floattobyte.java
C:\Users\Ganapa.Sathish\June 2023>java Floattobyte
float to byte: 100

C:\Users\Ganapa.Sathish\June 2023>javac Floattoshort.java
C:\Users\Ganapa.Sathish\June 2023>java Floattoshort
float to short: 1000

C:\Users\Ganapa.Sathish\June 2023>javac Floattoint.java
C:\Users\Ganapa.Sathish\June 2023>java Floattoint
float to int: 123

C:\Users\Ganapa.Sathish\June 2023>javac Floattolong.java
C:\Users\Ganapa.Sathish\June 2023>java Floattolong
float to long: 123

C:\Users\Ganapa.Sathish\June 2023>
```

The status bar at the bottom shows "23°C Partly cloudy". The taskbar includes icons for search, file explorer, and various applications.

Conclusion: Float to long conversion is possible [Explicit]

46.float to float conversion:

Yes, it is possible to convert a float to a float in Java. However, such a conversion would be redundant and unnecessary since the source and target types are the same.

In Java, this type of conversion, where the source and target types are identical, is called an identity conversion. It does not change the value or representation of the variable.

47.float to double conversion:

A screenshot of a Java code editor window titled "Floattodouble". The code is as follows:

```
class Floattodouble{
    public static void main(String [] args){
        float floatValue = 3.14f;
        double doubleValue = floatValue;
        System.out.println("float to double: " + doubleValue);
    }
}
```

The status bar at the bottom shows "Ln 2, Col 41". The taskbar at the bottom of the screen includes icons for search, file explorer, mail, and other system applications.

A screenshot of a Windows Command Prompt window titled "Command Prompt". The command history shows the following sequence of commands and outputs:

```
Microsoft Windows [Version 10.0.22621.1702]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Ganapa.Sathish>cd june 2023
C:\Users\Ganapa.Sathish\June 2023>javac Floattobyte.java
C:\Users\Ganapa.Sathish\June 2023>java Floattobyte
float to byte: 100

C:\Users\Ganapa.Sathish\June 2023>javac Floattoshort.java
C:\Users\Ganapa.Sathish\June 2023>java Floattoshort
float to short: 1000

C:\Users\Ganapa.Sathish\June 2023>javac Floattoint.java
C:\Users\Ganapa.Sathish\June 2023>java Floattoint
float to int: 123

C:\Users\Ganapa.Sathish\June 2023>javac Floattolong.java
C:\Users\Ganapa.Sathish\June 2023>java Floattolong
float to long: 123

C:\Users\Ganapa.Sathish\June 2023>javac Floattodouble.java
C:\Users\Ganapa.Sathish\June 2023>java Floattodouble
float to double: 3.140000104904175
```

The status bar at the bottom shows "23°C Partly cloudy" and the date "20-06-2023". The taskbar at the bottom of the screen includes icons for search, file explorer, mail, and other system applications.

Conclusion: float to double conversion is possible [Implicit]

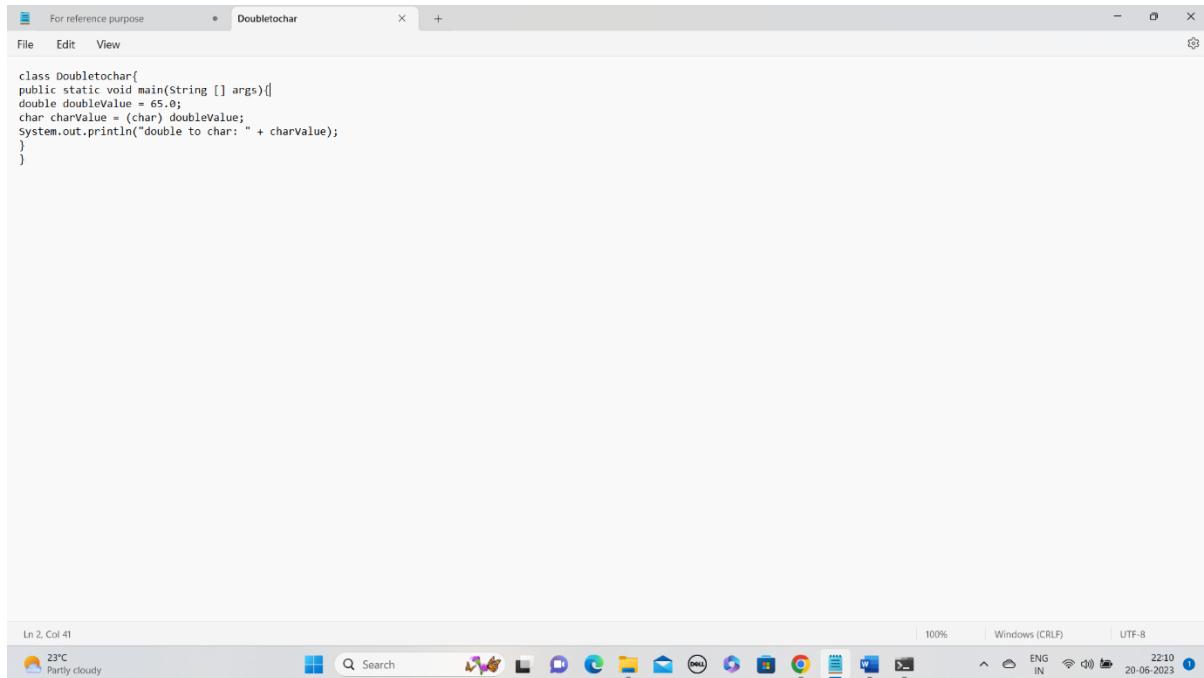
48.float to boolean conversion:

No, it is not possible to directly convert a float to a boolean in Java.

The conversion between a floating-point value (float) and a boolean value (boolean) is not allowed in the Java language.

In Java, a boolean can only have two possible values: true or false. On the other hand, a float represents a floating-point numeric value and can have a wide range of possible values, including positive, negative, and zero, making it incompatible with a boolean.

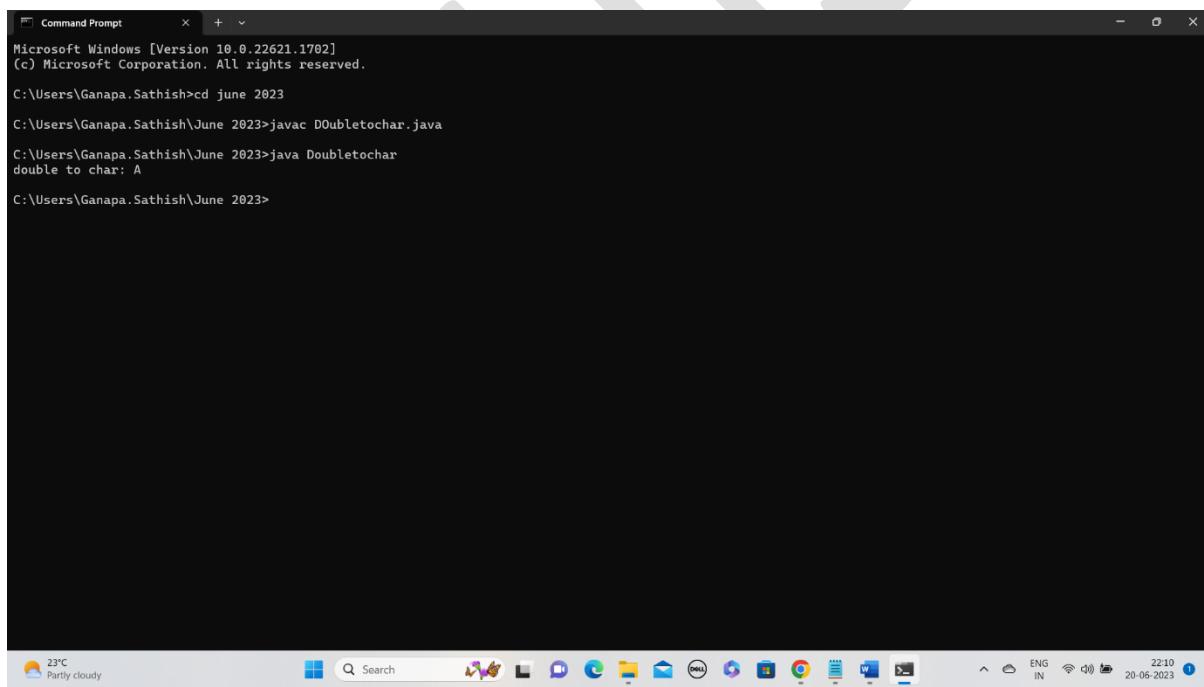
49.double to char conversion:



```
For reference purpose Doubletochar
File Edit View
class Doubletochar{
public static void main(String [] args){
double doubleValue = 65.0;
char charValue = (char) doubleValue;
System.out.println("double to char: " + charValue);
}
}

Ln 2, Col 41
```

The screenshot shows a Java code editor window titled "Doubletochar". The code defines a class "Doubletochar" with a main method that prints the character representation of the double value 65.0. The status bar at the bottom indicates "Ln 2, Col 41". The taskbar below the editor shows various pinned icons and the system tray with weather information (23°C, Partly cloudy), system volume, battery level (20-06-2023), and network status.



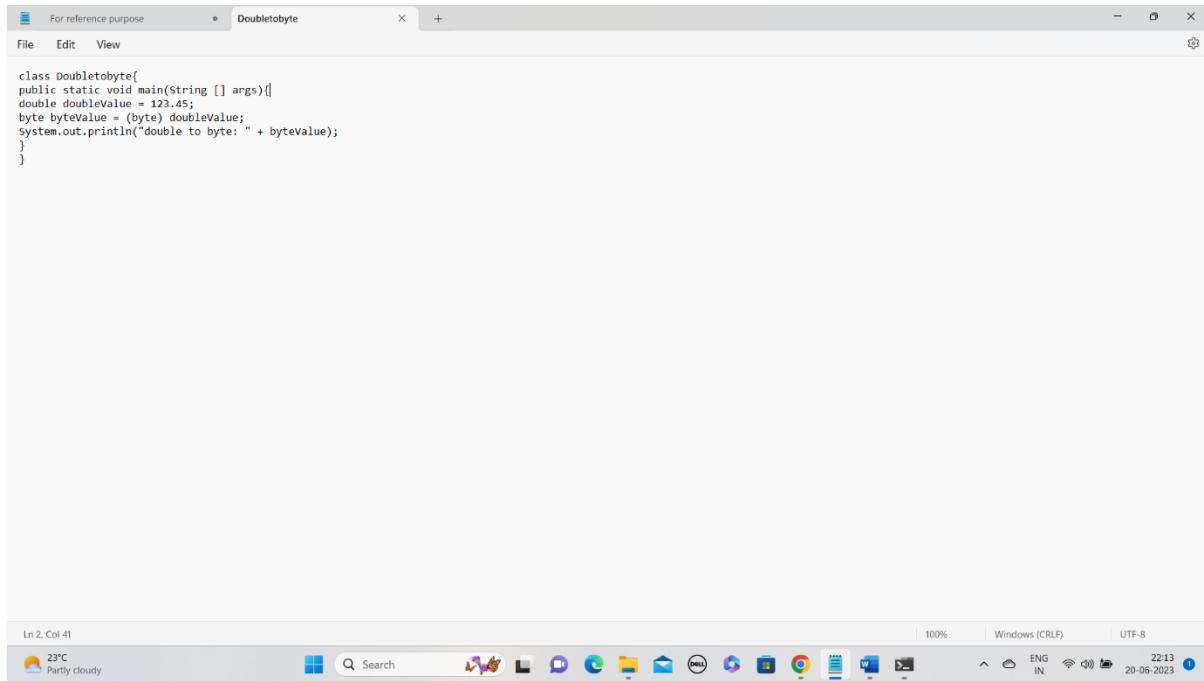
```
Command Prompt
Microsoft Windows [Version 10.0.22621.1702]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Ganapa.Sathish>cd june 2023
C:\Users\Ganapa.Sathish\June 2023>javac D0ubletochar.java
C:\Users\Ganapa.Sathish\June 2023>java Doubletochar
double to char: A
C:\Users\Ganapa.Sathish\June 2023>
```

The screenshot shows a Command Prompt window titled "Command Prompt". It runs under Microsoft Windows Version 10.0.22621.1702. The user navigates to the directory "june 2023", compiles the Java source file "D0ubletochar.java" using the javac compiler, and then executes it with the java command. The output "double to char: A" is displayed. The taskbar and system tray are visible at the bottom.

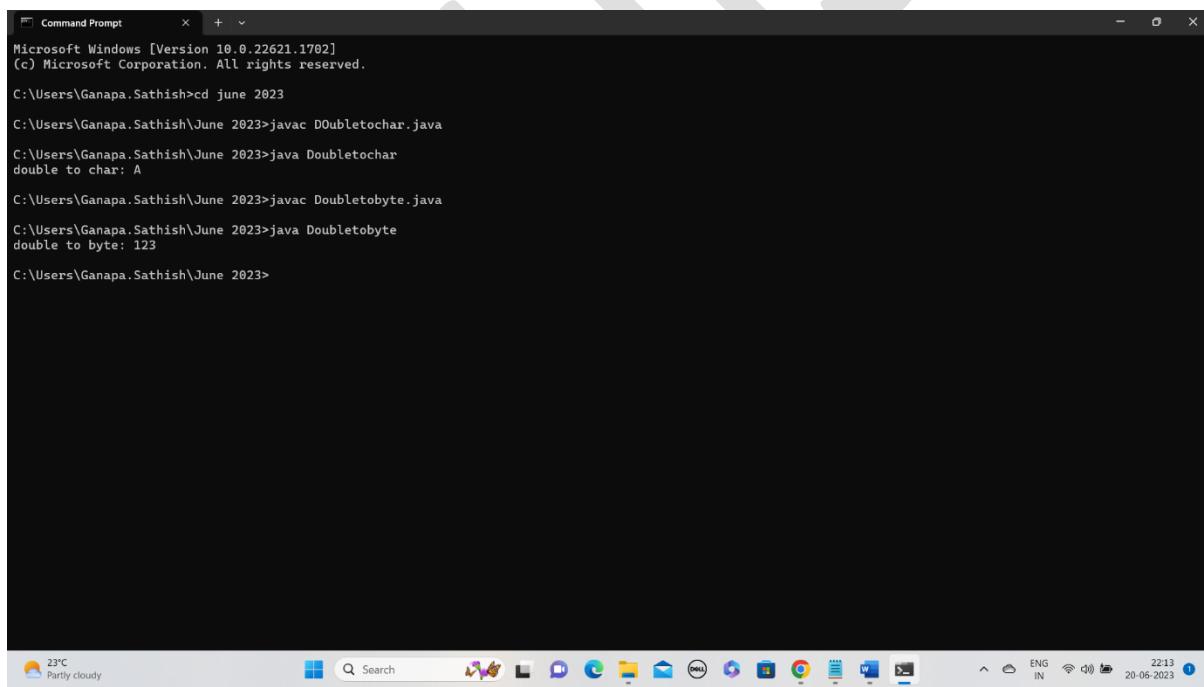
Conclusion: double to char conversion is possible [Explicit]

50.double to byte conversion:



```
For reference purpose Doubletobyte
File Edit View
class Doubletobyte{
public static void main(String [] args){
double doubleValue = 123.45;
byte byteValue = (byte) doubleValue;
System.out.println("double to byte: " + byteValue);
}
}

Ln 2, Col 41
23°C Partly cloudy Search 100% Windows (CRLF) UTF-8
ENG IN 22:13 20-06-2023
```



```
Command Prompt
Microsoft Windows [Version 10.0.22621.1702]
(c) Microsoft Corporation. All rights reserved.

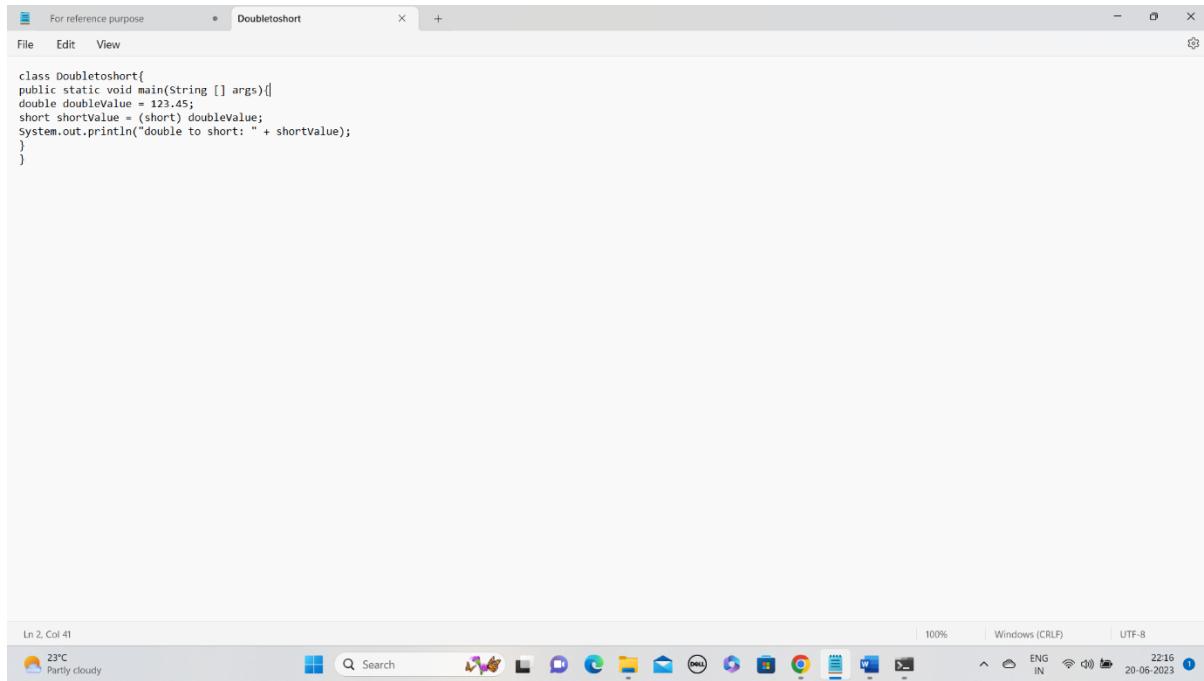
C:\Users\Ganapa.Sathish>cd june 2023
C:\Users\Ganapa.Sathish\June 2023>javac D0ubletochar.java
C:\Users\Ganapa.Sathish\June 2023>java Doubletochar
double to char: A

C:\Users\Ganapa.Sathish\June 2023>javac Doubletobyte.java
C:\Users\Ganapa.Sathish\June 2023>java Doubletobyte
double to byte: 123

C:\Users\Ganapa.Sathish\June 2023>
```

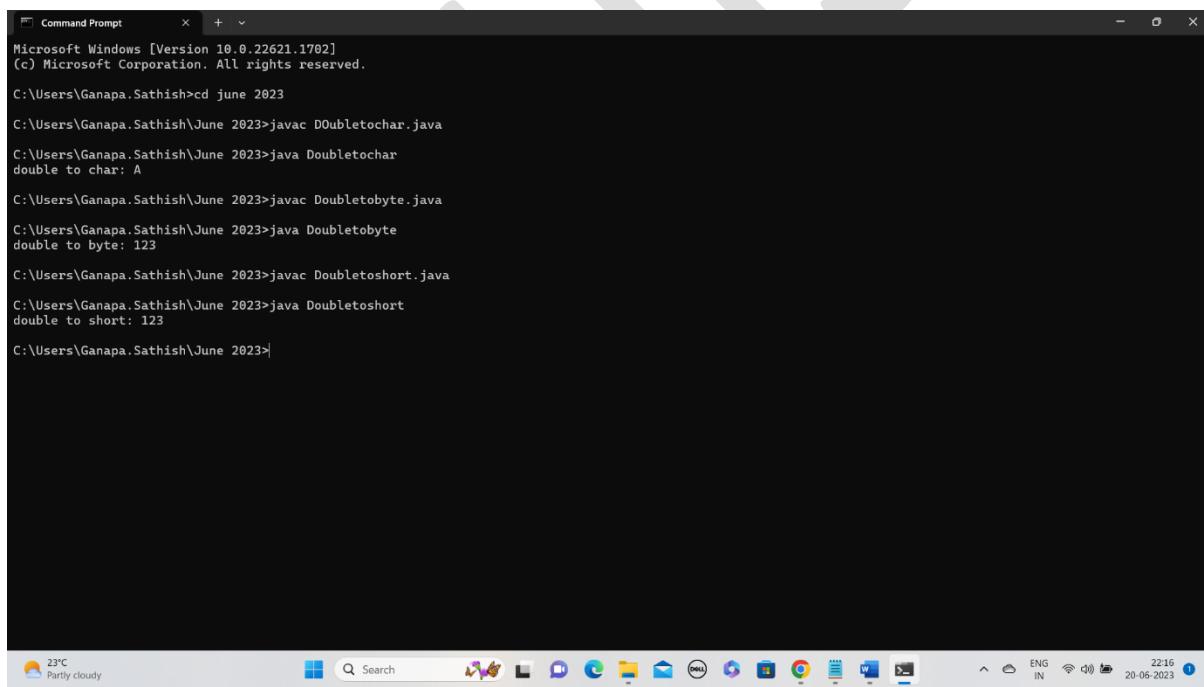
Conclusion: double to byte conversion is possible [Explicit]

51.double to short conversion:



```
For reference purpose Doubletoshort
File Edit View
class Doubletoshort{
public static void main(String [] args){
double doubleValue = 123.45;
short shortValue = (short) doubleValue;
System.out.println("double to short: "+ shortValue);
}
}

Ln 2, Col 41
23°C Partly cloudy Search 100% Windows (CRLF) UTF-8
ENG IN 22:16 20-06-2023
```



```
Command Prompt
Microsoft Windows [Version 10.0.22621.1702]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Ganapa.Sathish>cd june 2023
C:\Users\Ganapa.Sathish\June 2023>javac D0ubletochar.java
C:\Users\Ganapa.Sathish\June 2023>java Doubletochar
double to char: A

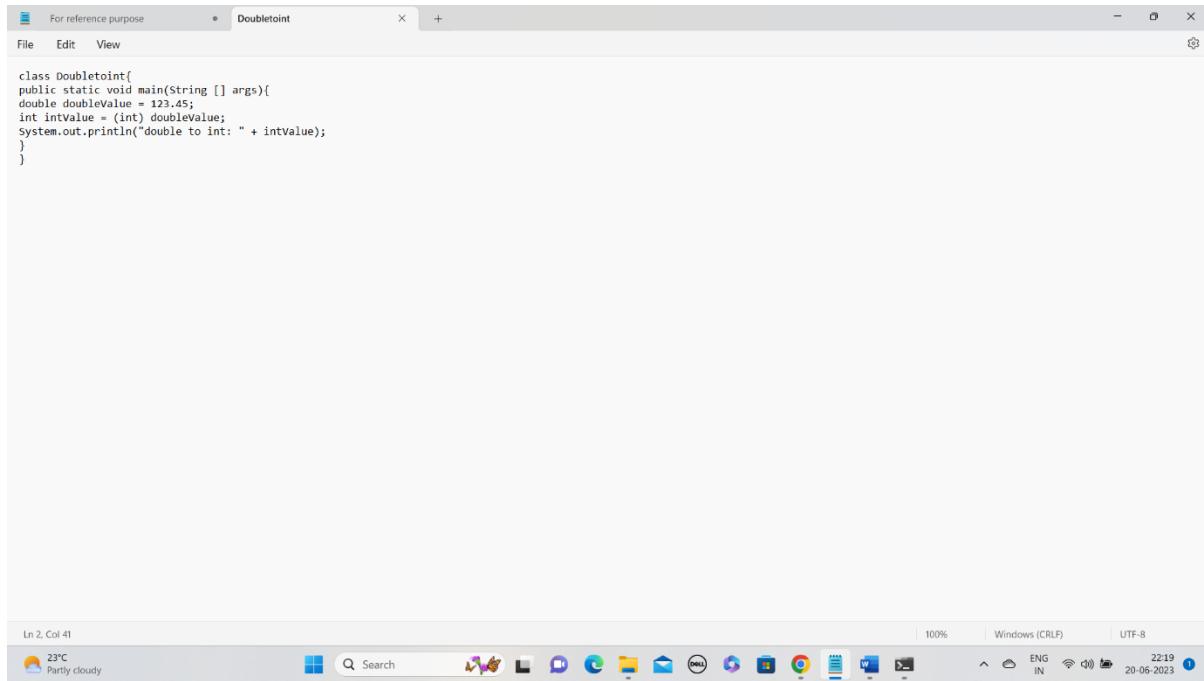
C:\Users\Ganapa.Sathish\June 2023>javac Doubletobyte.java
C:\Users\Ganapa.Sathish\June 2023>java Doubletobyte
double to byte: 123

C:\Users\Ganapa.Sathish\June 2023>javac Doubletoshort.java
C:\Users\Ganapa.Sathish\June 2023>java Doubletoshort
double to short: 123

C:\Users\Ganapa.Sathish\June 2023>
```

Conclusion: double to short conversion is possible [Explicit]

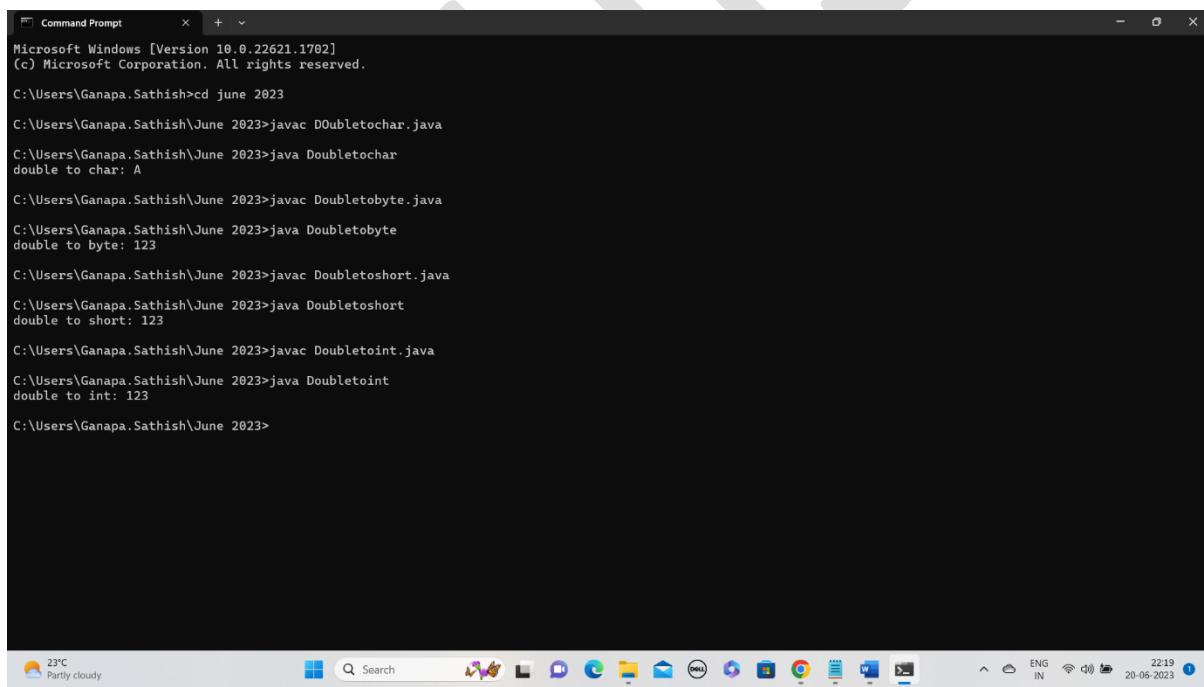
52.double to int conversion:



```
For reference purpose  Doubletoint  -  X  +  File  Edit  View
class Doubletoint{
public static void main(String [] args){
double doubleValue = 123.45;
int intValue = (int) doubleValue;
System.out.println("double to int: " + intValue);
}
}

Ln 2, Col 41
```

23°C Partly cloudy Search 100% Windows (CRLF) UTF-8 22:19 20-06-2023



```
Command Prompt  Microsoft Windows [Version 10.0.22621.1702]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Ganapa.Sathish>cd june 2023
C:\Users\Ganapa.Sathish\June 2023>javac D0ubletochar.java
C:\Users\Ganapa.Sathish\June 2023>java Doubletochar
double to char: A

C:\Users\Ganapa.Sathish\June 2023>javac Doubletobyte.java
C:\Users\Ganapa.Sathish\June 2023>java Doubletobyte
double to byte: 123

C:\Users\Ganapa.Sathish\June 2023>javac Doubletoshort.java
C:\Users\Ganapa.Sathish\June 2023>java Doubletoshort
double to short: 123

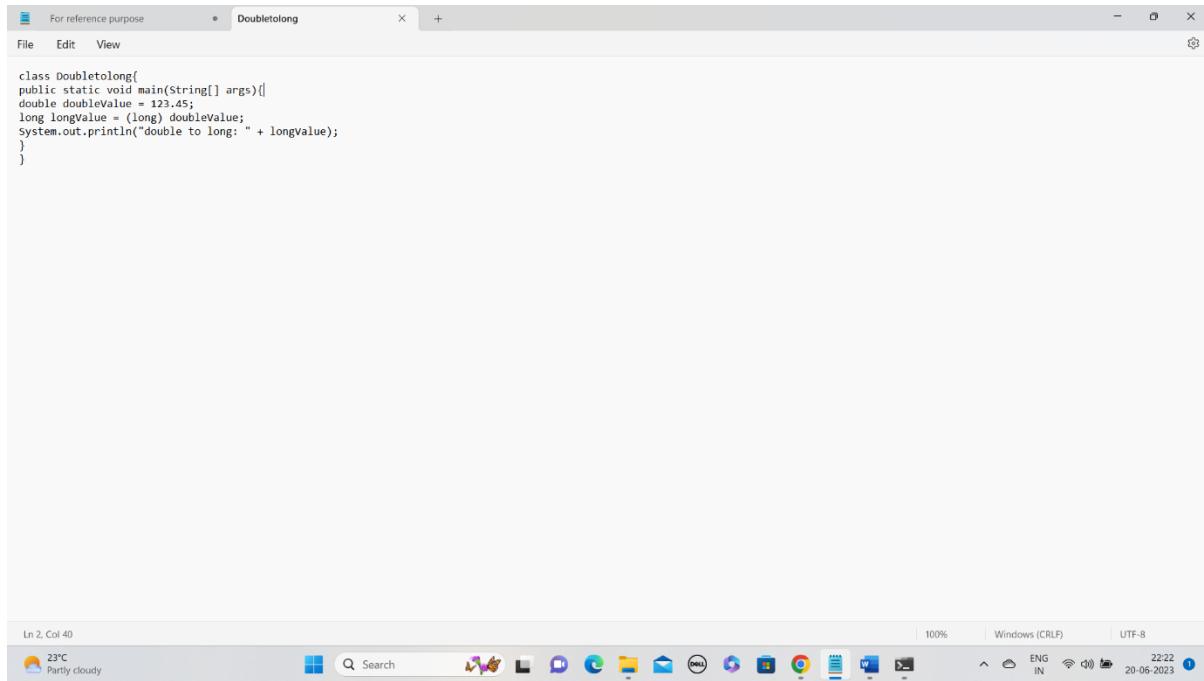
C:\Users\Ganapa.Sathish\June 2023>javac Doubletoint.java
C:\Users\Ganapa.Sathish\June 2023>java Doubletoint
double to int: 123

C:\Users\Ganapa.Sathish\June 2023>
```

23°C Partly cloudy Search 100% Windows (CRLF) UTF-8 22:19 20-06-2023

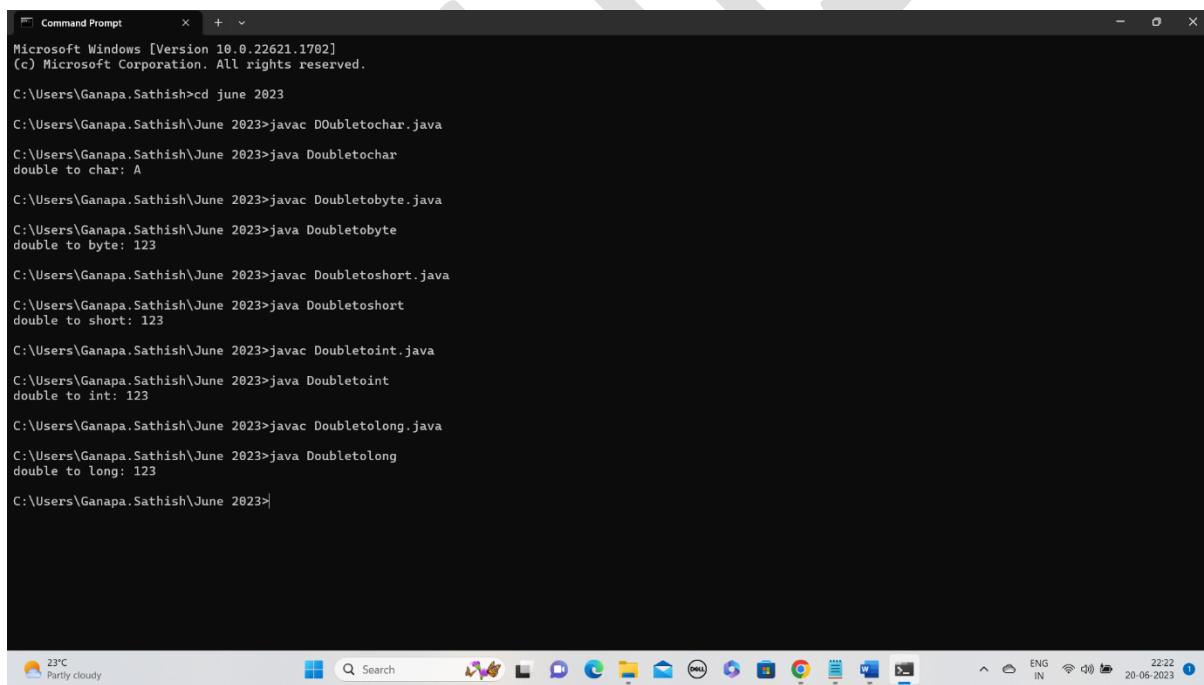
Conclusion: double to int conversion is possible [Explicit]

53.double to long conversion:



```
For reference purpose Doubletolong
File Edit View
class Doubletolong{
public static void main(String[] args){
double doubleValue = 123.45;
long longValue = (long) doubleValue;
System.out.println("double to long: " + longValue);
}
}

Ln 2, Col 40
23°C Partly cloudy Search 100% Windows (CRLF) UTF-8
ENG IN 22:22 20-06-2023
```



```
Command Prompt
Microsoft Windows [Version 10.0.22621.1702]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Ganapa.Sathish>cd june 2023
C:\Users\Ganapa.Sathish\June 2023>javac D0ubletochar.java
C:\Users\Ganapa.Sathish\June 2023>java Doubletochar
double to char: A

C:\Users\Ganapa.Sathish\June 2023>javac Doubletobyte.java
C:\Users\Ganapa.Sathish\June 2023>java Doubletobyte
double to byte: 123

C:\Users\Ganapa.Sathish\June 2023>javac Doubletoshort.java
C:\Users\Ganapa.Sathish\June 2023>java Doubletoshort
double to short: 123

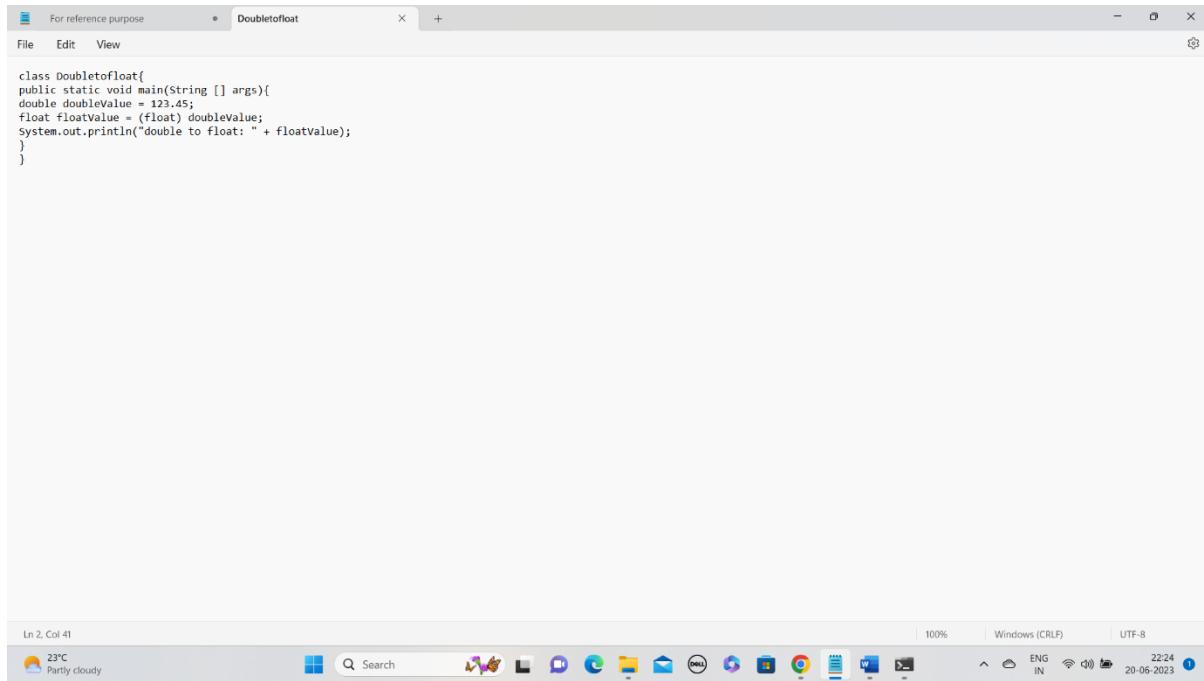
C:\Users\Ganapa.Sathish\June 2023>javac Doubletoint.java
C:\Users\Ganapa.Sathish\June 2023>java Doubletoint
double to int: 123

C:\Users\Ganapa.Sathish\June 2023>javac Doubletolong.java
C:\Users\Ganapa.Sathish\June 2023>java Doubletolong
double to long: 123

C:\Users\Ganapa.Sathish\June 2023>
```

Conclusion: double to long conversion is possible [Explicit]

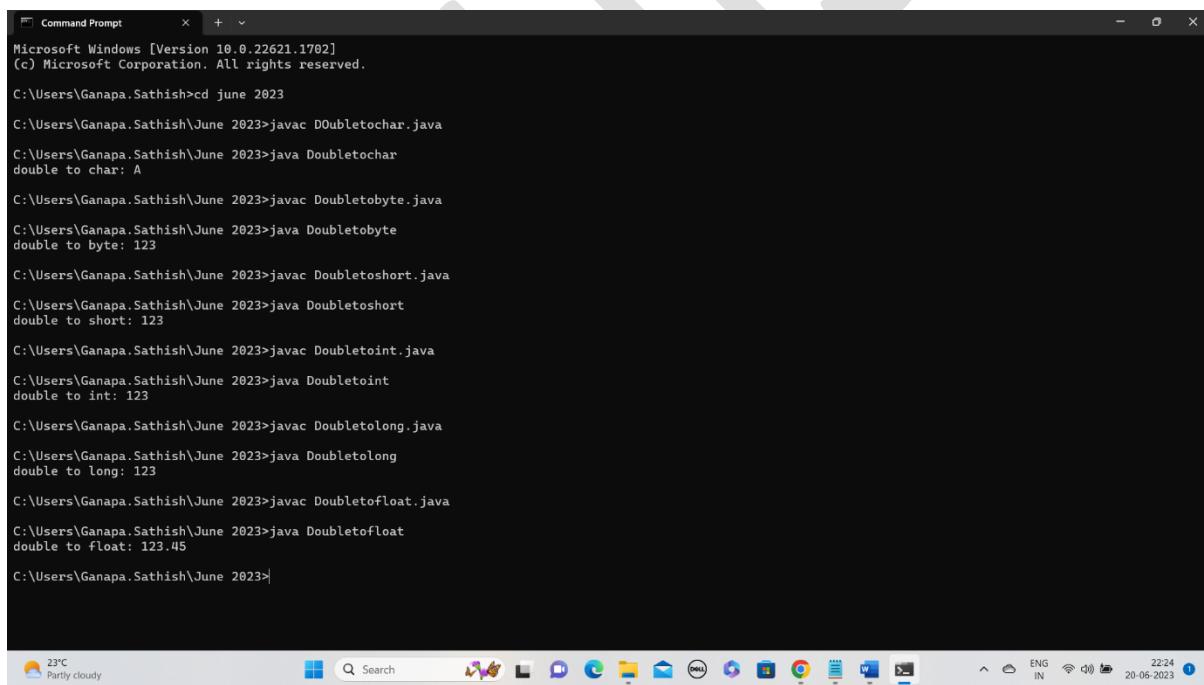
54.double to float conversion:



```
For reference purpose Doubletofloat
File Edit View
class Doubletofloat{
public static void main(String [] args){
double doubleValue = 123.45;
float floatValue = (float) doubleValue;
System.out.println("double to float: "+ floatValue);
}
}

Ln 2, Col 41
```

23°C Partly cloudy Search 100% Windows (CRLF) UTF-8 ENG IN 22:24 20-06-2023



```
Command Prompt
Microsoft Windows [Version 10.0.22621.1702]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Ganapa.Sathish>cd june 2023
C:\Users\Ganapa.Sathish\June 2023>javac D0ubletochar.java
C:\Users\Ganapa.Sathish\June 2023>java Doubletochar
double to char: A

C:\Users\Ganapa.Sathish\June 2023>javac Doubletobyte.java
C:\Users\Ganapa.Sathish\June 2023>java Doubletobyte
double to byte: 123

C:\Users\Ganapa.Sathish\June 2023>javac Doubletoshort.java
C:\Users\Ganapa.Sathish\June 2023>java Doubletoshort
double to short: 123

C:\Users\Ganapa.Sathish\June 2023>javac Doubletoint.java
C:\Users\Ganapa.Sathish\June 2023>java Doubletoint
double to int: 123

C:\Users\Ganapa.Sathish\June 2023>javac Doubletolong.java
C:\Users\Ganapa.Sathish\June 2023>java Doubletolong
double to long: 123

C:\Users\Ganapa.Sathish\June 2023>javac Doubletofloat.java
C:\Users\Ganapa.Sathish\June 2023>java Doubletofloat
double to float: 123.45

C:\Users\Ganapa.Sathish\June 2023>
```

23°C Partly cloudy Search 100% Windows (CRLF) UTF-8 ENG IN 22:24 20-06-2023

Conclusion: Double to float conversion is possible [Explicit]

55.double to double conversion:

Yes, it is possible to convert a double to a double in Java. However, this conversion is considered redundant as it does not change the value or type of the variable.

56.double to boolean conversion:

In Java, there is no direct conversion from double to boolean because these types are not compatible for direct conversion.

57.boolean to char conversion:

No, it is not possible to directly convert a boolean to a char in Java. The types boolean and char are not compatible for direct conversion.

A boolean represents a binary value of either true or false, while a char represents a single Unicode character. The two types have different data representations and purposes, so a direct conversion between them is not provided by the Java programming language.

If you want to represent a boolean value as a char, you need to define a mapping or encoding scheme for the conversion.

58.boolean to byte conversion:

No, there is no direct conversion from boolean to byte in Java. The types boolean and byte are not compatible for direct conversion.

59.boolean to short conversion:

No, it is not possible to directly convert a boolean to a short in Java.

The types boolean and short are not compatible for direct conversion.

A boolean represents a binary value of either true or false, while a short is a 16-bit signed integer. They have different data representations and purposes, so there is no built-in direct conversion between them.

60.boolean to int conversion:

No, there is no direct conversion from boolean to int in Java. The types boolean and int are not compatible for direct conversion.

A boolean represents a binary value of either true or false, while an int represents a 32-bit signed integer. They have different data representations and purposes, so there is no built-in direct conversion between them.

61.boolean to long conversion:

No, there is no direct conversion from boolean to long in Java. The types boolean and long are not compatible for direct conversion.

62.boolean to float conversion:

No, there is no direct conversion from boolean to float in Java. The types boolean and float are not directly compatible for conversion.

63.boolean to double conversion:

There is no direct conversion from boolean to double in Java. The types boolean and double are not directly compatible for conversion.

64.boolean to Boolean conversion:

There is no need to convert a boolean value to another boolean value in Java because it is already a boolean type. A boolean can only have

two possible values: true or false. There is no conversion needed or possible between these two values.

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Type Casting chart

^{TO} TYPE	char	byte	short	int	long	float	double	boolean
char	CNR	✓ Explicit	✓ Explicit	✓ Implicit	✓ Explicit	✓ Implicit	✓ Implicit	N
Byte	✓ Explicit	CNR	✓ Implicit	✓ Implicit	✓ Implicit	✓ Implicit	✓ Implicit	N
short	✓ Explicit	✓ Explicit	CNR	✓ Implicit	✓ Implicit	✓ Implicit	✓ Implicit	N
int	✓ Explicit	✓ Explicit	✓ Explicit	CNR	✓ Implicit	✓ Implicit	✓ Implicit	N
long	✓ Explicit	✓ Explicit	✓ Explicit	✓ Explicit	CNR	✓ Explicit	✓ Implicit	N
float	✓ Explicit	✓ Explicit	✓ Explicit	✓ Explicit	✓ Explicit	CNR	✓ Implicit	N
double	✓ Explicit	✓ Explicit	✓ Explicit	✓ Explicit	✓ Explicit	✓ Explicit	CNR	N
boolean	N	N	N	N	N	N	N	CNR

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