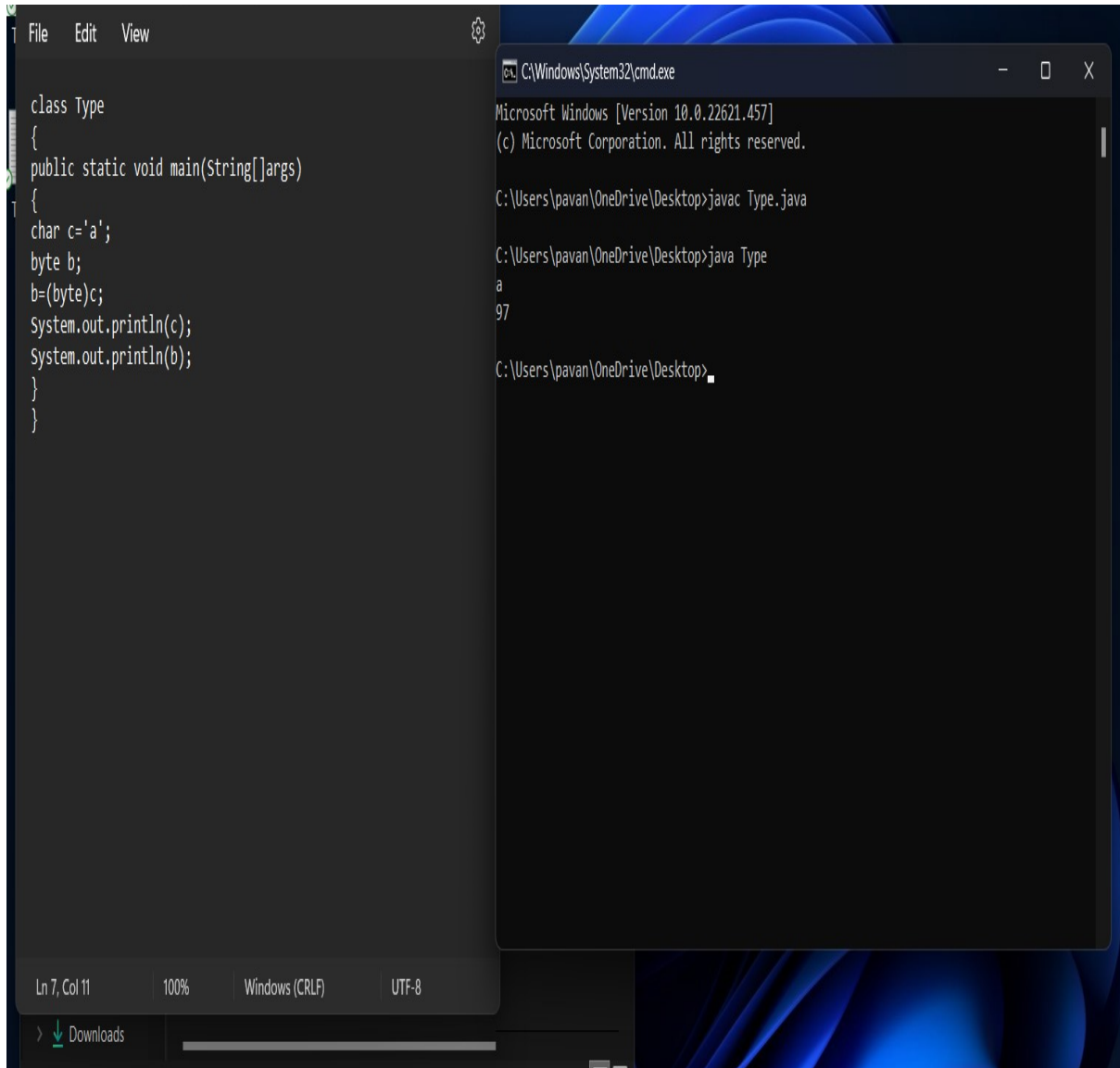


TYPE CASTING

Program:



The image shows a screenshot of a Java IDE (IntelliJ IDEA) and a Windows Command Prompt window. The IDE window displays the following Java code:

```
class Type
{
    public static void main(String[] args)
    {
        char c='a';
        byte b;
        b=(byte)c;
        System.out.println(c);
        System.out.println(b);
    }
}
```

The Command Prompt window shows the output of the program:

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.22621.457]
(c) Microsoft Corporation. All rights reserved.

C:\Users\pavan\OneDrive\Desktop>javac Type.java

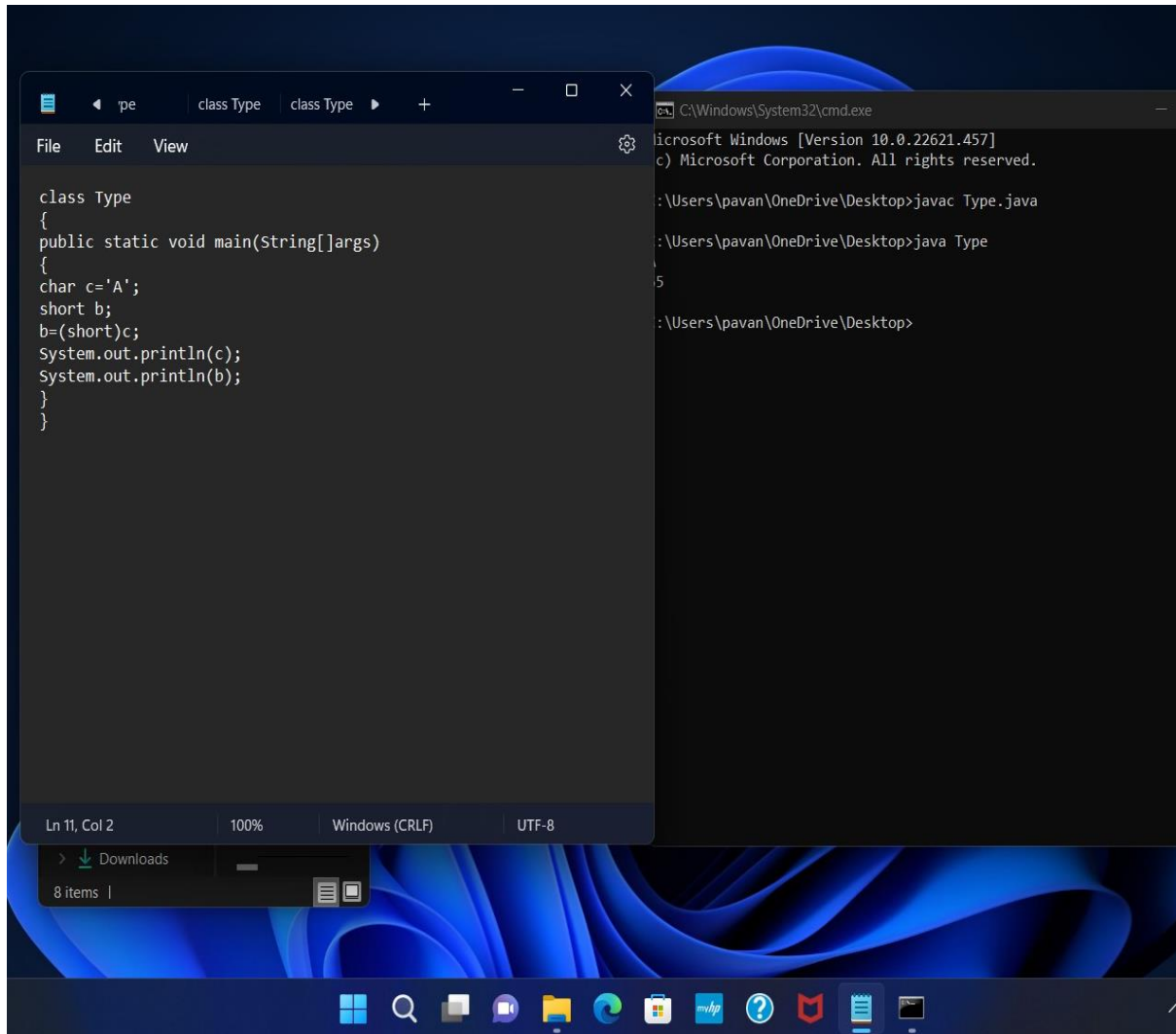
C:\Users\pavan\OneDrive\Desktop>java Type
a
97

C:\Users\pavan\OneDrive\Desktop>
```

The IDE status bar at the bottom indicates the cursor is at Line 7, Column 11, with 100% zoom, Windows (CRLF) line endings, and UTF-8 encoding.

Conclusion: It is possible
Explicit casting

Program:



```
class Type
{
    public static void main(String[]args)
    {
        char c='A';
        short b;
        b=(short)c;
        System.out.println(c);
        System.out.println(b);
    }
}
```

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.22621.457]
(c) Microsoft Corporation. All rights reserved.

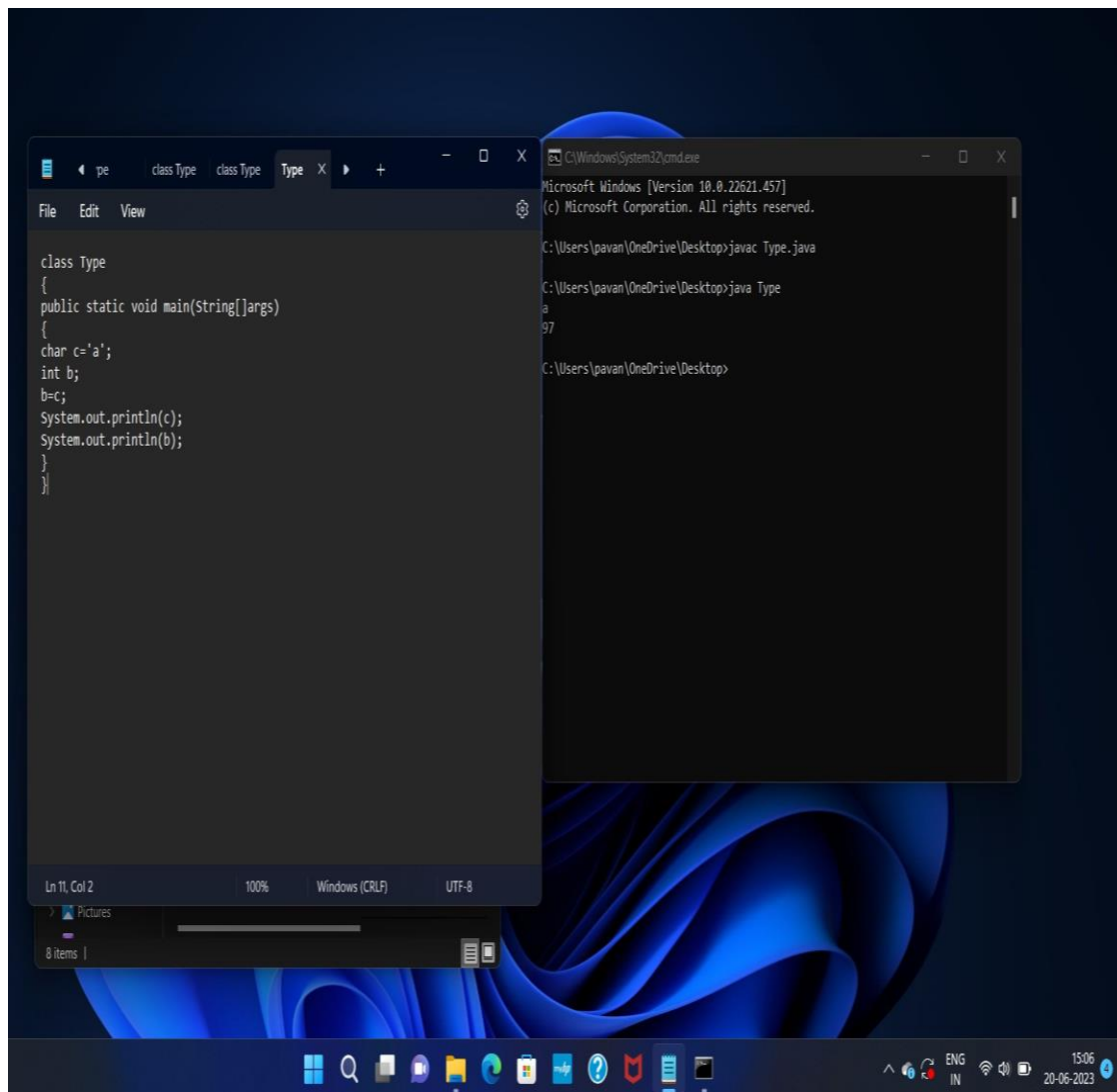
C:\Users\pavan\OneDrive\Desktop>javac Type.java

C:\Users\pavan\OneDrive\Desktop>java Type
A
5

C:\Users\pavan\OneDrive\Desktop>
```

Conclusion: It is possible
Explicit conversion

Program:



The screenshot shows a Windows desktop with a blue abstract background. In the foreground, there are two windows. The left window is a Java IDE (likely IntelliJ IDEA) with a tab titled 'Type'. It contains the following Java code:

```
class Type
{
    public static void main(String[] args)
    {
        char c='a';
        int b;
        b=c;
        System.out.println(c);
        System.out.println(b);
    }
}
```

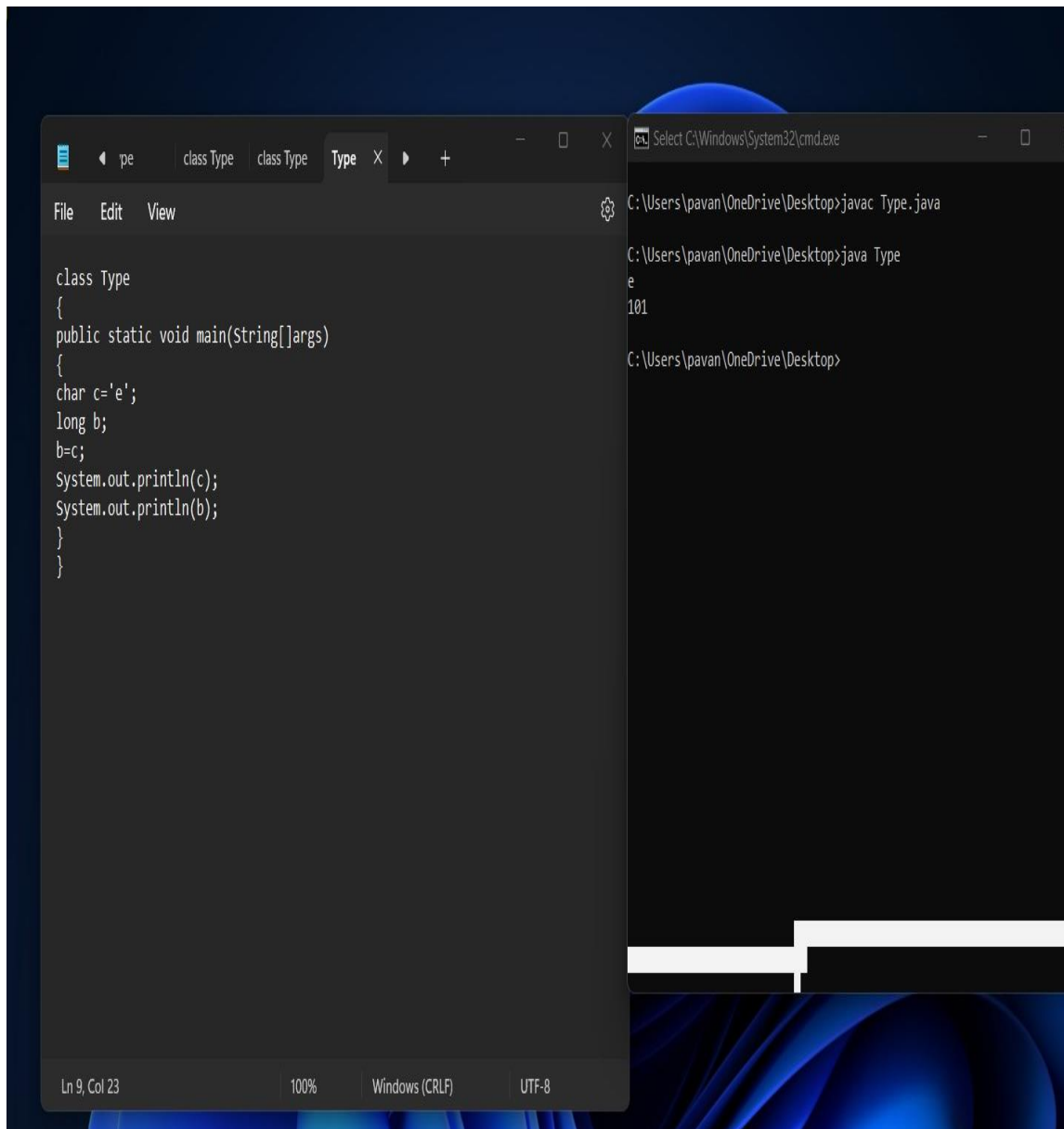
The status bar at the bottom of the IDE shows 'Ln 11, Col 2', '100%', 'Windows (CRLF)', and 'UTF-8'. Below the IDE window, a file explorer window is partially visible, showing the 'Pictures' folder with '8 items'. The right window is a command prompt titled 'C:\Windows\System32\cmd.exe'. It shows the output of the following commands:

```
C:\Users\pavan\OneDrive\Desktop>javac Type.java
C:\Users\pavan\OneDrive\Desktop>java Type
a
97
C:\Users\pavan\OneDrive\Desktop>
```

The Windows taskbar at the bottom shows the Start button, search icon, and several pinned applications. The system tray on the right shows the date and time as '15:06 20-06-2023'.

Conclusion: It is possible
implicit conversion

Program:



The screenshot displays an IDE with two windows. The left window, titled 'Type', contains the following Java code:

```
class Type
{
    public static void main(String[] args)
    {
        char c='e';
        long b;
        b=c;
        System.out.println(c);
        System.out.println(b);
    }
}
```

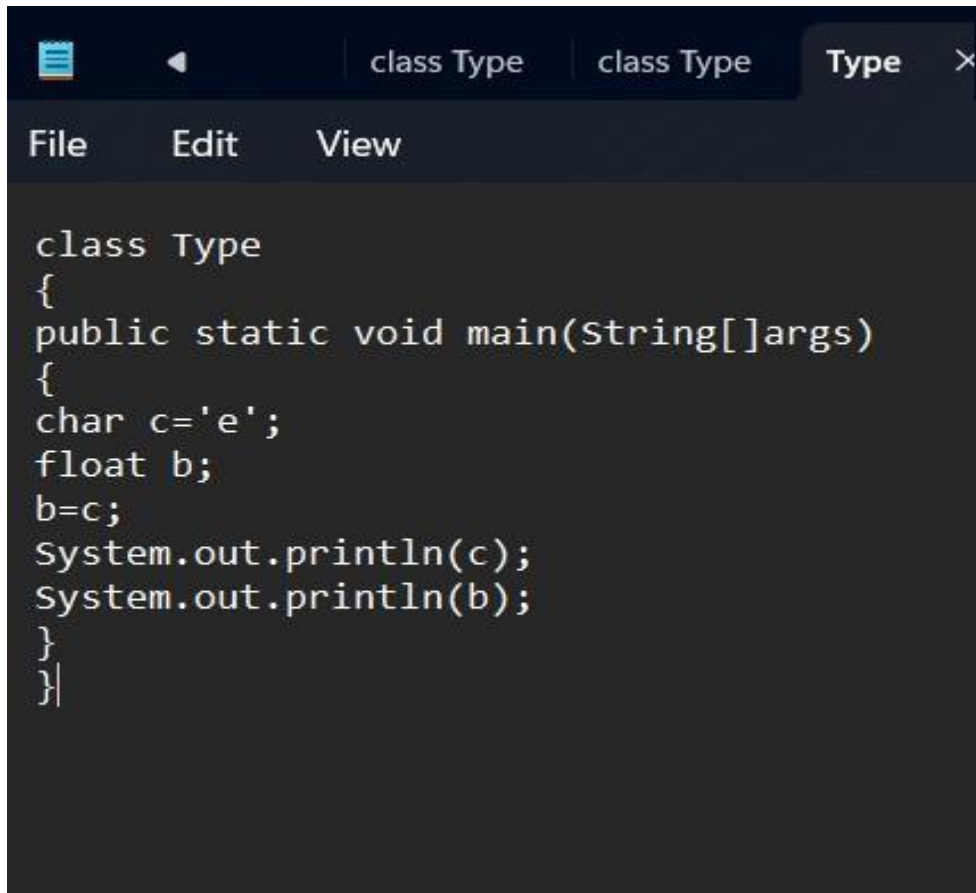
The right window, titled 'Select C:\Windows\System32\cmd.exe', shows the command prompt output:

```
C:\Users\pavan\OneDrive\Desktop>javac Type.java
C:\Users\pavan\OneDrive\Desktop>java Type
e
101
C:\Users\pavan\OneDrive\Desktop>
```

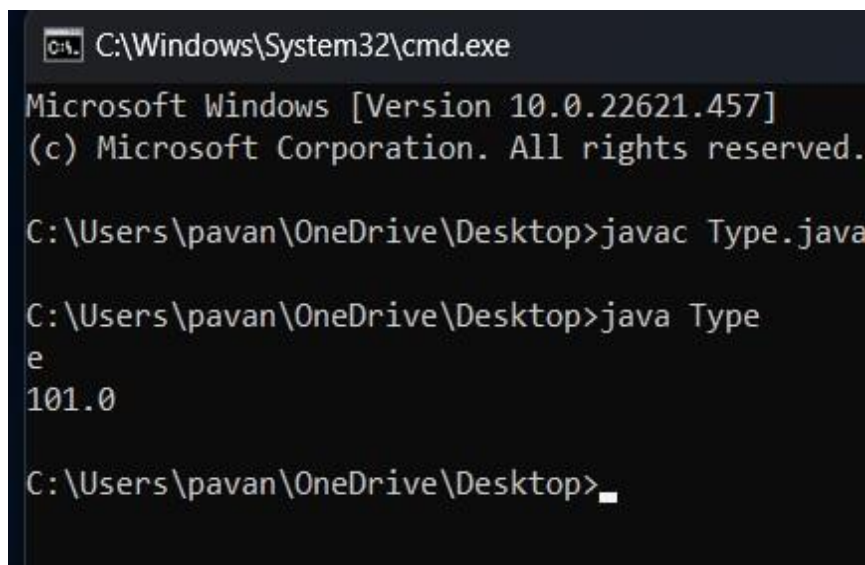
The status bar at the bottom of the IDE indicates 'Ln 9, Col 23', '100%', 'Windows (CRLF)', and 'UTF-8'.

Conclusion: It is possible
Implicit conversion

Program:

A screenshot of an IDE window titled 'Type'. The window has a menu bar with 'File', 'Edit', and 'View'. The code inside is a Java class named 'Type' with a 'main' method. The code is as follows:

```
class Type
{
    public static void main(String[] args)
    {
        char c='e';
        float b;
        b=c;
        System.out.println(c);
        System.out.println(b);
    }
}
```

A screenshot of a Windows command prompt window. The title bar shows 'C:\Windows\System32\cmd.exe'. The prompt shows the following commands and output:

```
Microsoft Windows [Version 10.0.22621.457]
(c) Microsoft Corporation. All rights reserved.

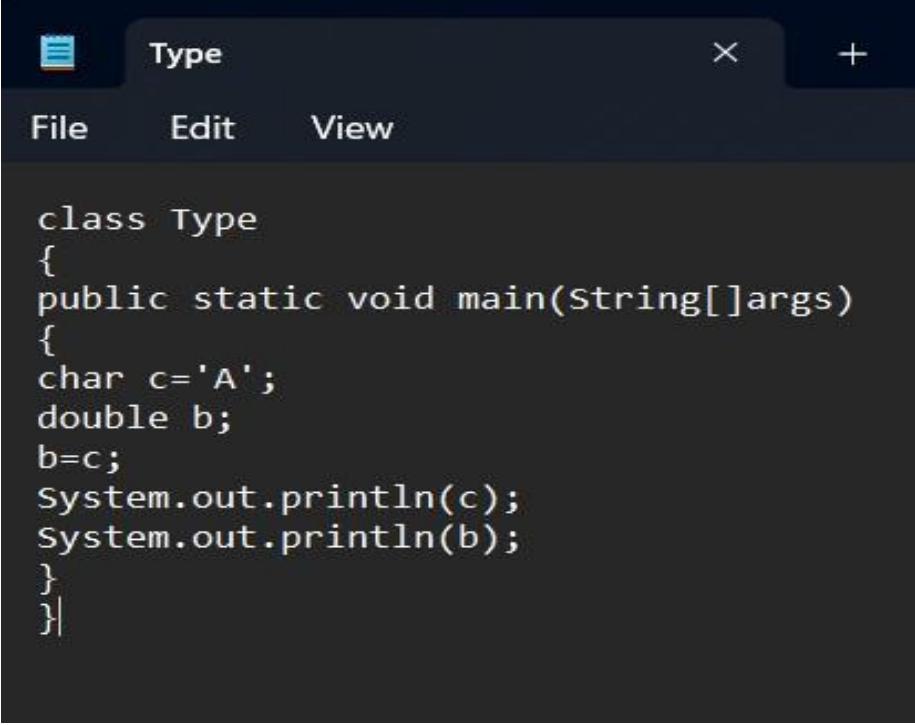
C:\Users\pavan\OneDrive\Desktop>javac Type.java

C:\Users\pavan\OneDrive\Desktop>java Type
e
101.0

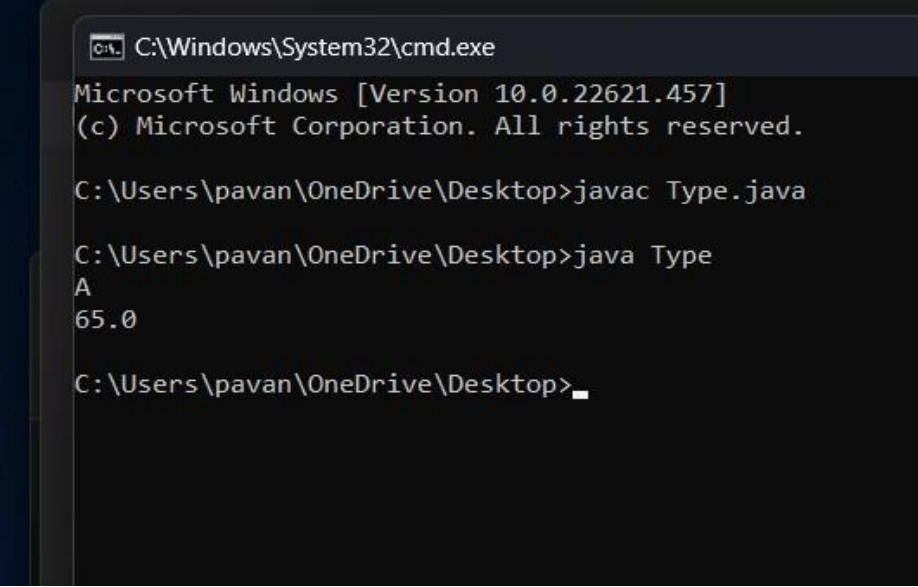
C:\Users\pavan\OneDrive\Desktop>
```

Conclusion: It is possible
Implicit conversion

Program:



```
class Type
{
    public static void main(String[] args)
    {
        char c='A';
        double b;
        b=c;
        System.out.println(c);
        System.out.println(b);
    }
}
```



```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.22621.457]
(c) Microsoft Corporation. All rights reserved.

C:\Users\pavan\OneDrive\Desktop>javac Type.java

C:\Users\pavan\OneDrive\Desktop>java Type
A
65.0

C:\Users\pavan\OneDrive\Desktop>
```

Conclusion : It is possible
Implicit conversion

Program:

```
class Demo2
{
    public static void main(String[]args)
    {
        char c='a';
        boolean b;
        b=c;
        system.out.println(c);
    }
}
```

```
C:\Users\pavan\OneDrive\Desktop>javac Demo2.java
```

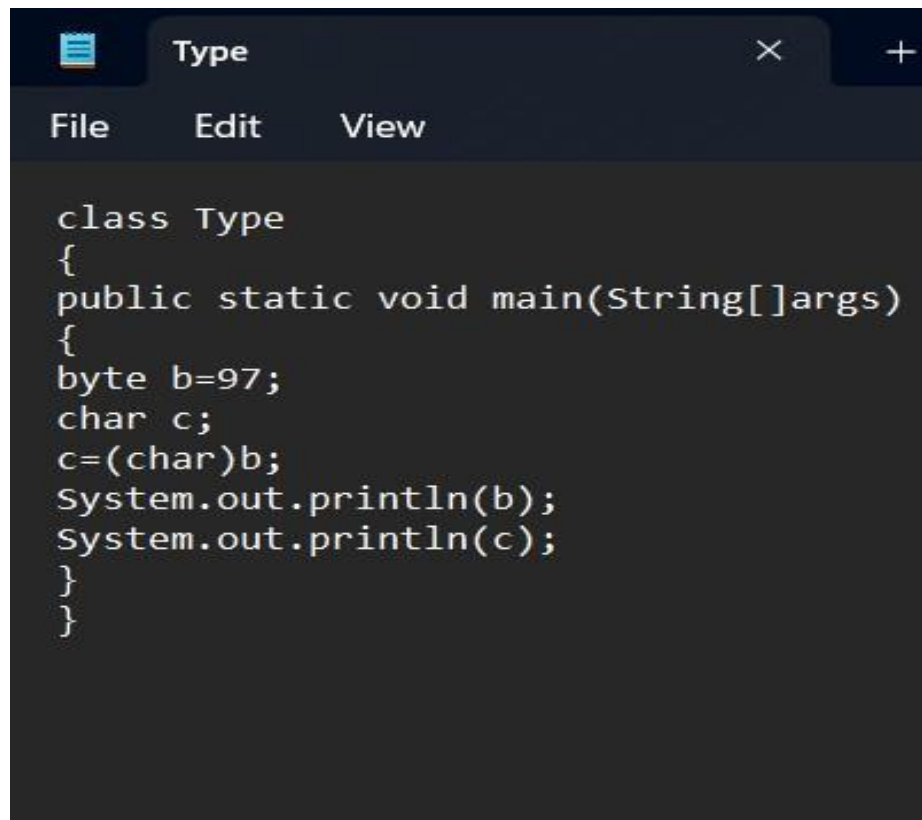
```
Demo2.java:7: error: incompatible types: char cannot be converted to boolean
```

```
b=c;
```

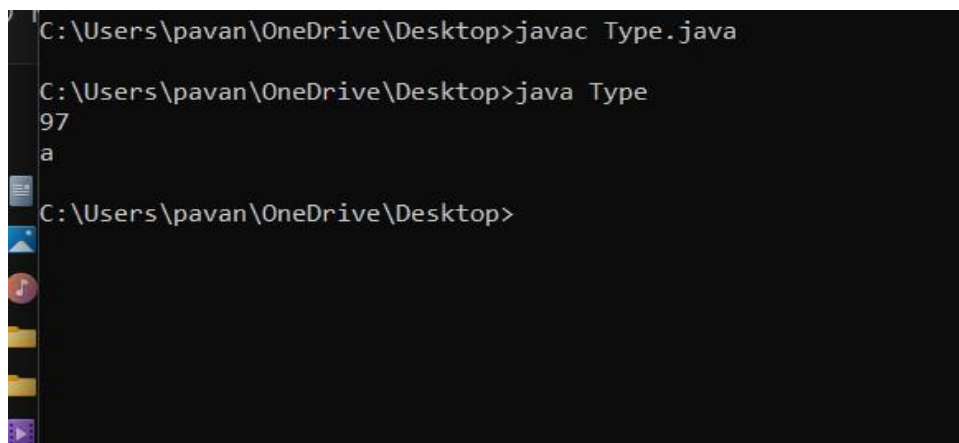
```
^
```

Conclusion : It is not possible

Program:



```
class Type
{
    public static void main(String[] args)
    {
        byte b=97;
        char c;
        c=(char)b;
        System.out.println(b);
        System.out.println(c);
    }
}
```



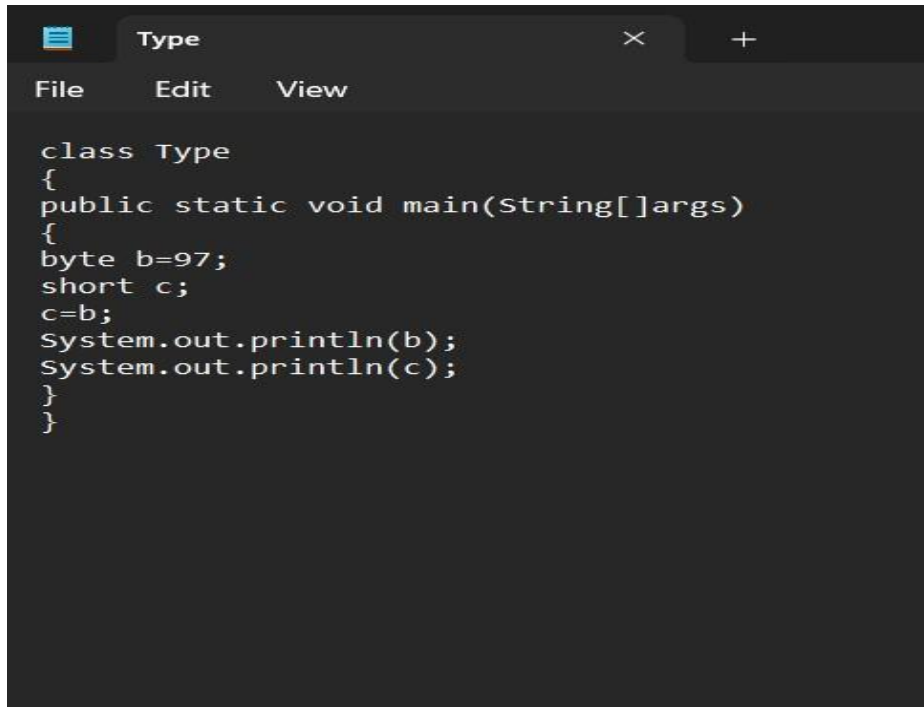
```
C:\Users\pavan\OneDrive\Desktop>javac Type.java

C:\Users\pavan\OneDrive\Desktop>java Type
97
a

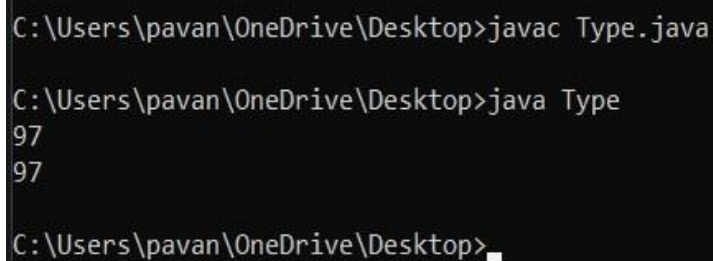
C:\Users\pavan\OneDrive\Desktop>
```

conclusion: It is possible
explicit conversion

Program:



```
class Type
{
    public static void main(String[]args)
    {
        byte b=97;
        short c;
        c=b;
        System.out.println(b);
        System.out.println(c);
    }
}
```



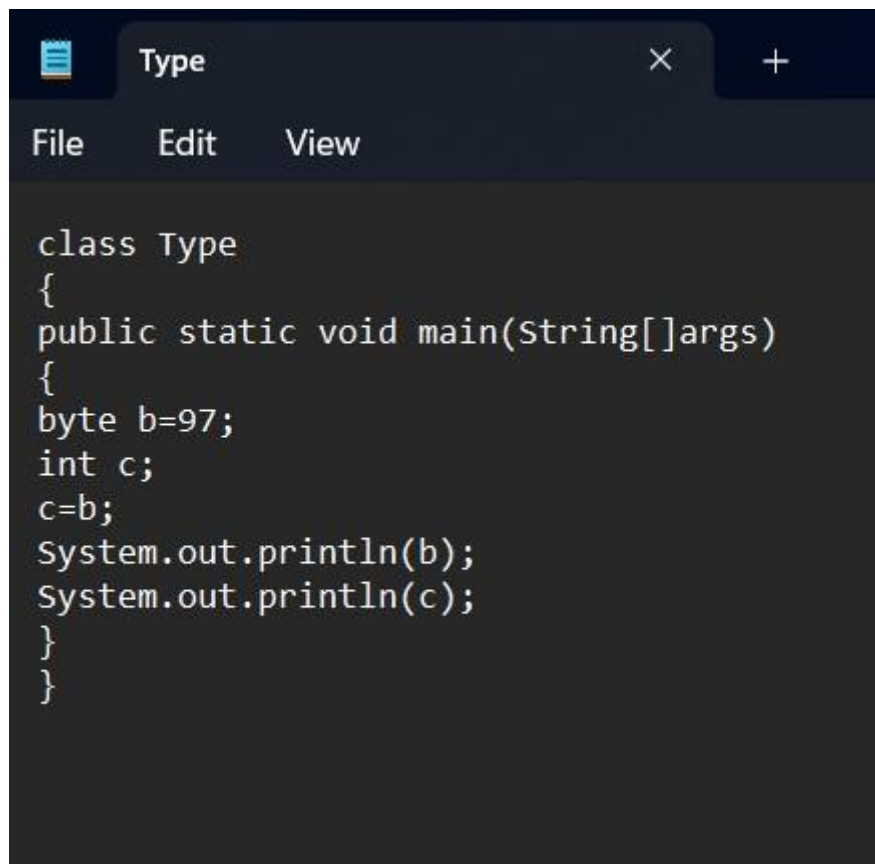
```
C:\Users\pavan\OneDrive\Desktop>javac Type.java

C:\Users\pavan\OneDrive\Desktop>java Type
97
97

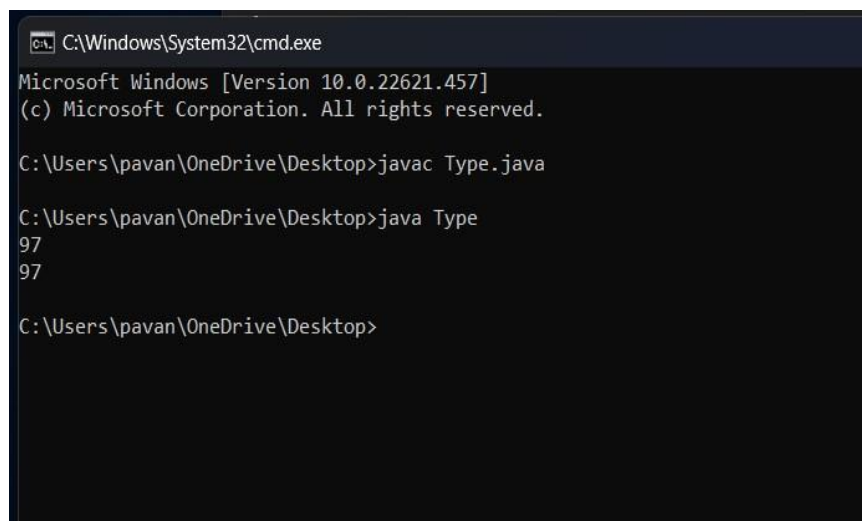
C:\Users\pavan\OneDrive\Desktop>_
```

Conclusion: It is possible
Implicit conversion

Program:



```
class Type
{
public static void main(String[]args)
{
byte b=97;
int c;
c=b;
System.out.println(b);
System.out.println(c);
}
}
```



```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.22621.457]
(c) Microsoft Corporation. All rights reserved.

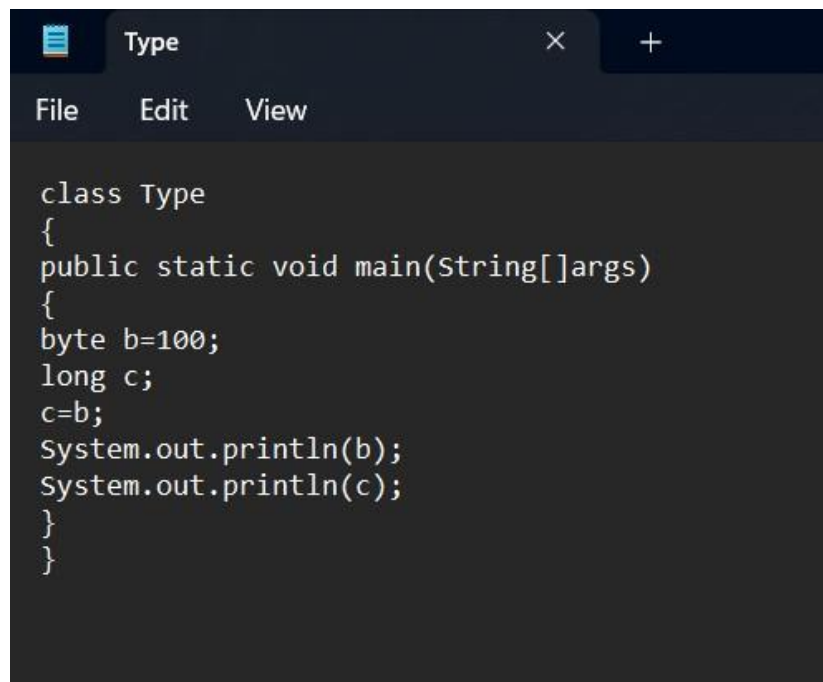
C:\Users\pavan\OneDrive\Desktop>javac Type.java

C:\Users\pavan\OneDrive\Desktop>java Type
97
97

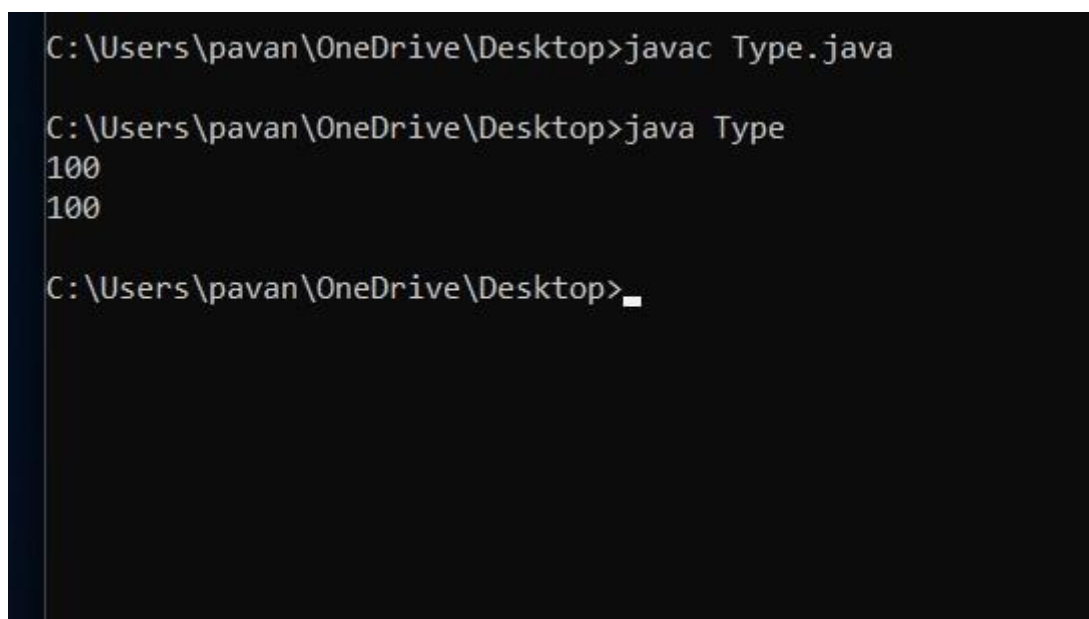
C:\Users\pavan\OneDrive\Desktop>
```

Conclusion: It is possible
Implicit conversion

Program:



```
class Type
{
    public static void main(String[] args)
    {
        byte b=100;
        long c;
        c=b;
        System.out.println(b);
        System.out.println(c);
    }
}
```



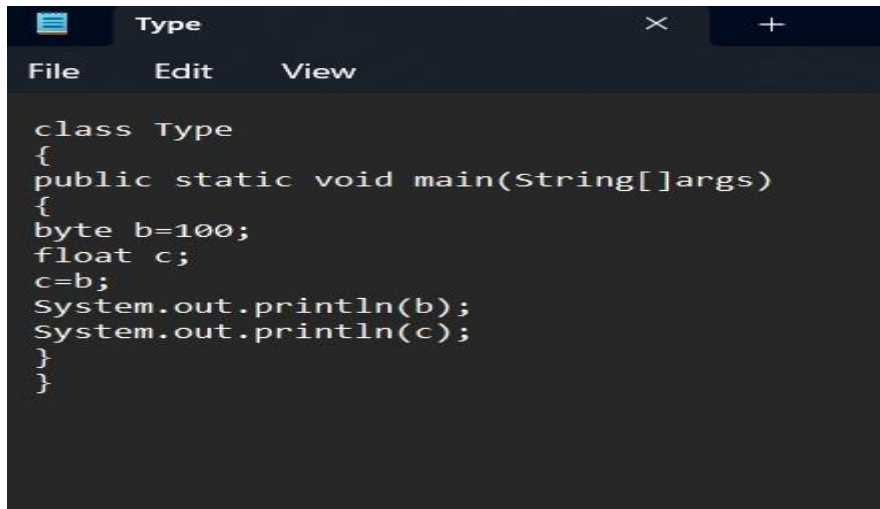
```
C:\Users\pavan\OneDrive\Desktop>javac Type.java

C:\Users\pavan\OneDrive\Desktop>java Type
100
100

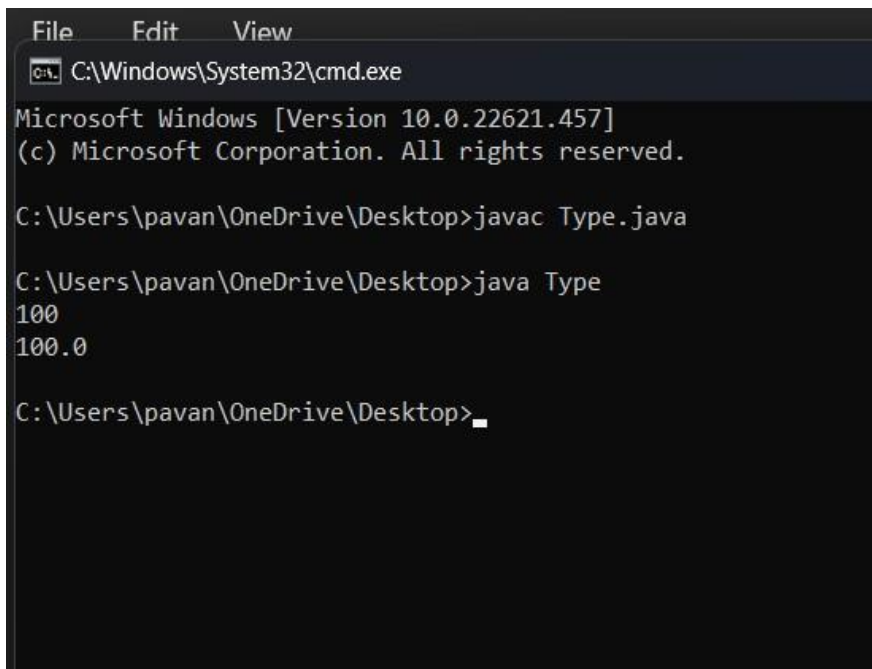
C:\Users\pavan\OneDrive\Desktop>_
```

Conclusion: It is possible
Implicit conversion

Program:



```
class Type
{
    public static void main(String[] args)
    {
        byte b=100;
        float c;
        c=b;
        System.out.println(b);
        System.out.println(c);
    }
}
```



```
File Edit View
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.22621.457]
(c) Microsoft Corporation. All rights reserved.

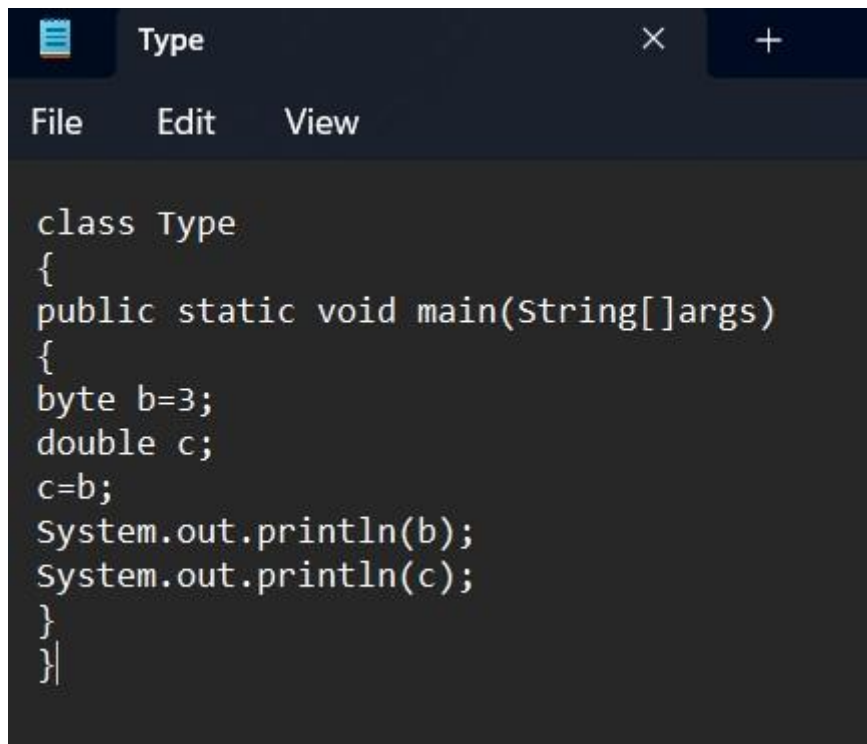
C:\Users\pavan\OneDrive\Desktop>javac Type.java

C:\Users\pavan\OneDrive\Desktop>java Type
100
100.0

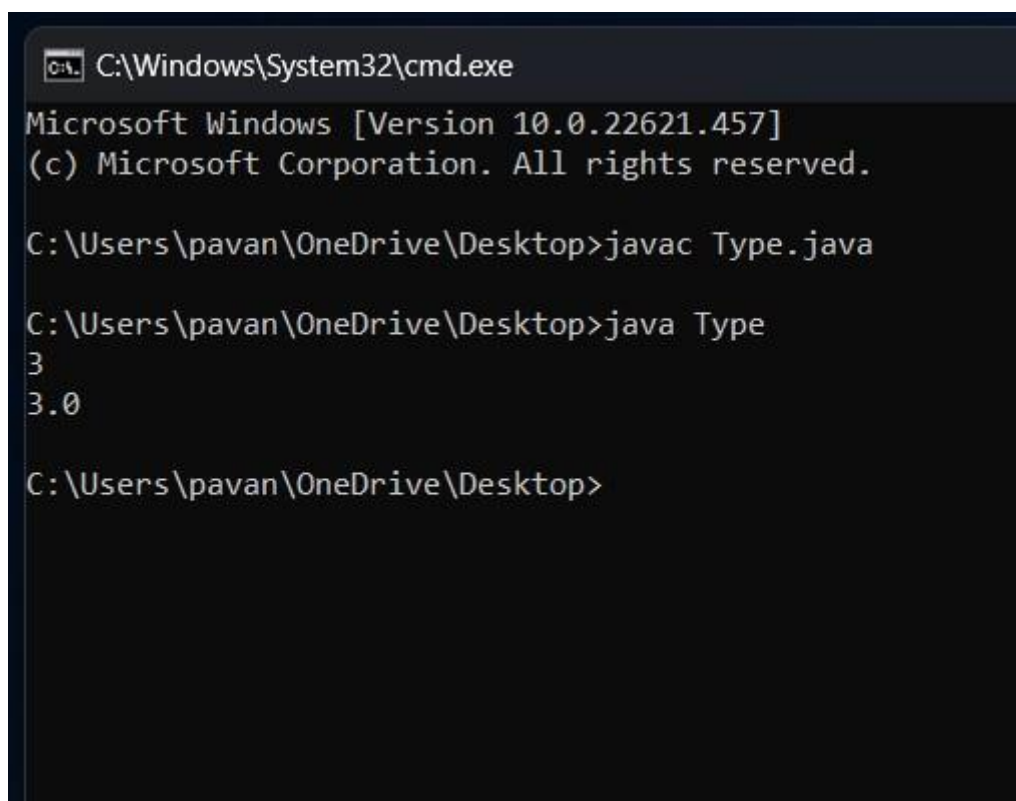
C:\Users\pavan\OneDrive\Desktop>_
```

Conclusion: It is possible
Implicit conversion

Program:



```
class Type
{
    public static void main(String[] args)
    {
        byte b=3;
        double c;
        c=b;
        System.out.println(b);
        System.out.println(c);
    }
}
```



```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.22621.457]
(c) Microsoft Corporation. All rights reserved.

C:\Users\pavan\OneDrive\Desktop>javac Type.java

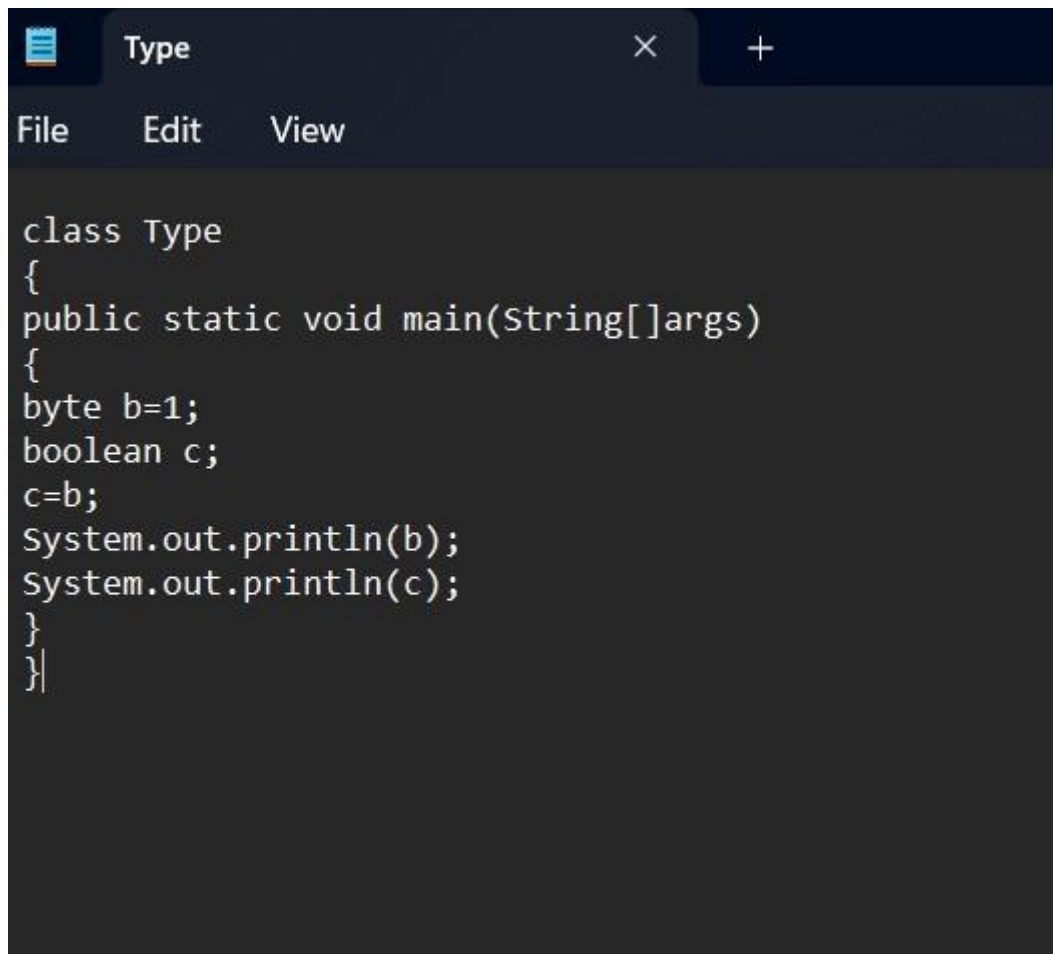
C:\Users\pavan\OneDrive\Desktop>java Type
3
3.0

C:\Users\pavan\OneDrive\Desktop>
```

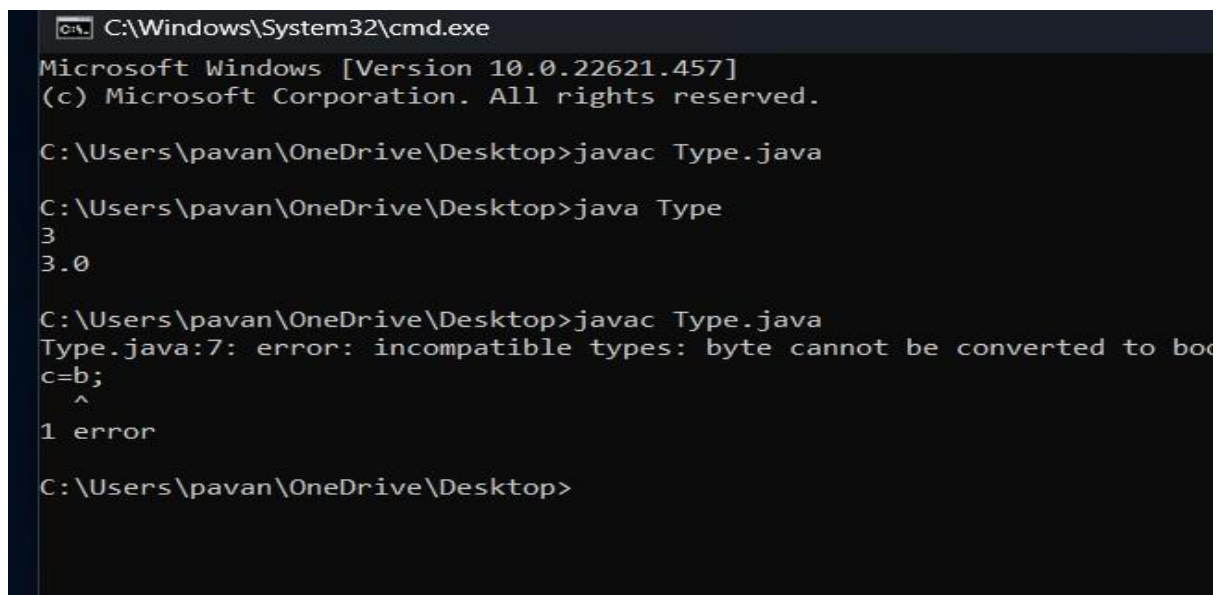
Conclusion: It is possible

Implicit conversion

Program:



```
class Type
{
    public static void main(String[] args)
    {
        byte b=1;
        boolean c;
        c=b;
        System.out.println(b);
        System.out.println(c);
    }
}
```



```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.22621.457]
(c) Microsoft Corporation. All rights reserved.

C:\Users\pavan\OneDrive\Desktop>javac Type.java

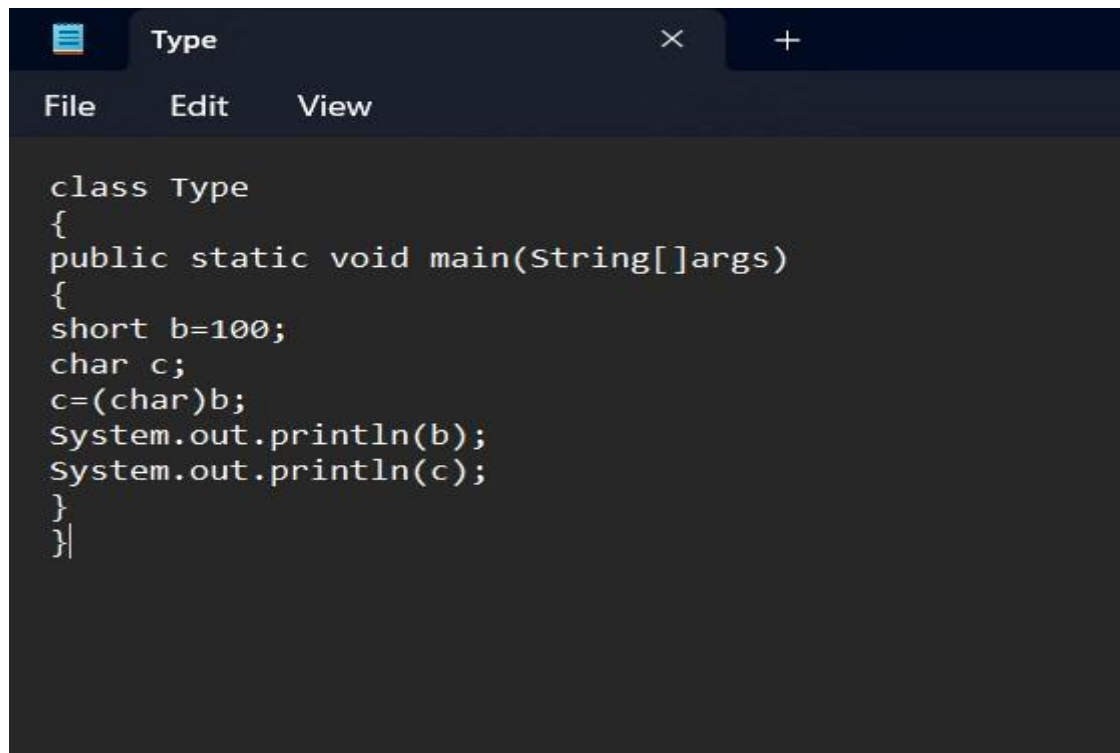
C:\Users\pavan\OneDrive\Desktop>java Type
3
3.0

C:\Users\pavan\OneDrive\Desktop>javac Type.java
Type.java:7: error: incompatible types: byte cannot be converted to boolean
    c=b;
      ^
1 error

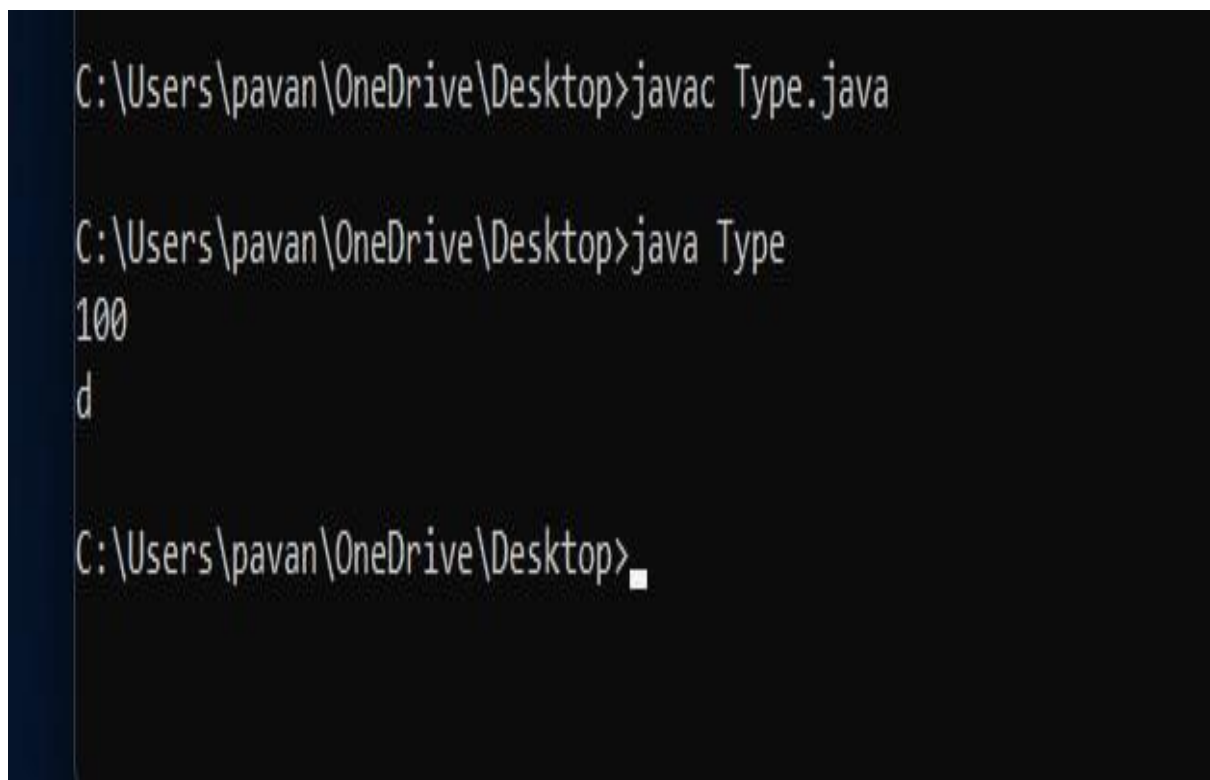
C:\Users\pavan\OneDrive\Desktop>
```

Conclusion: It is not possible

Program:



```
class Type
{
    public static void main(String[] args)
    {
        short b=100;
        char c;
        c=(char)b;
        System.out.println(b);
        System.out.println(c);
    }
}
```



```
C:\Users\pavan\OneDrive\Desktop>javac Type.java

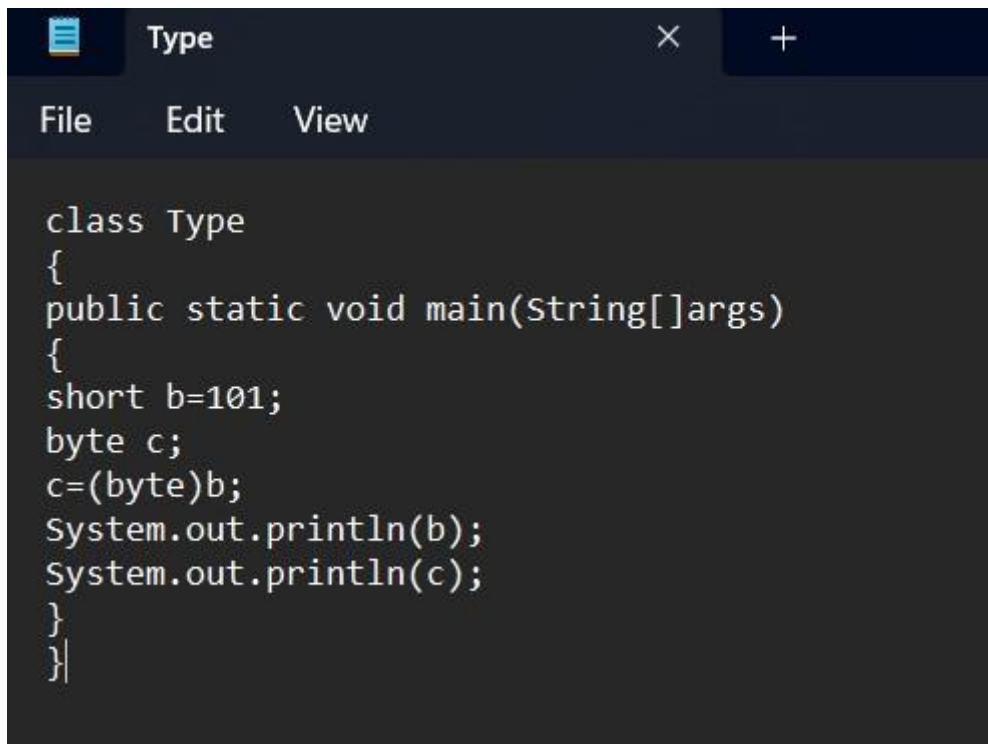
C:\Users\pavan\OneDrive\Desktop>java Type
100
d

C:\Users\pavan\OneDrive\Desktop>
```

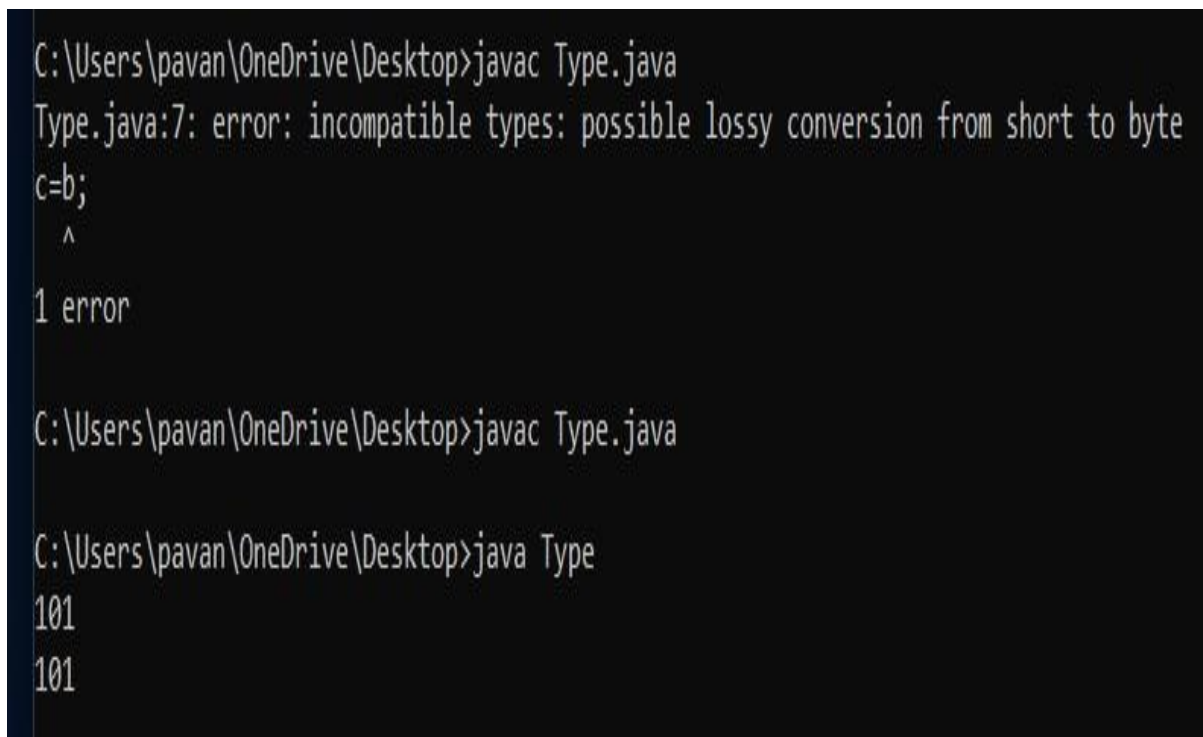
Conclusion: It is possible

Explicit conversion

program



```
class Type
{
    public static void main(String[]args)
    {
        short b=101;
        byte c;
        c=(byte)b;
        System.out.println(b);
        System.out.println(c);
    }
}
```



```
C:\Users\pavan\OneDrive\Desktop>javac Type.java
Type.java:7: error: incompatible types: possible lossy conversion from short to byte
c=b;
  ^
1 error

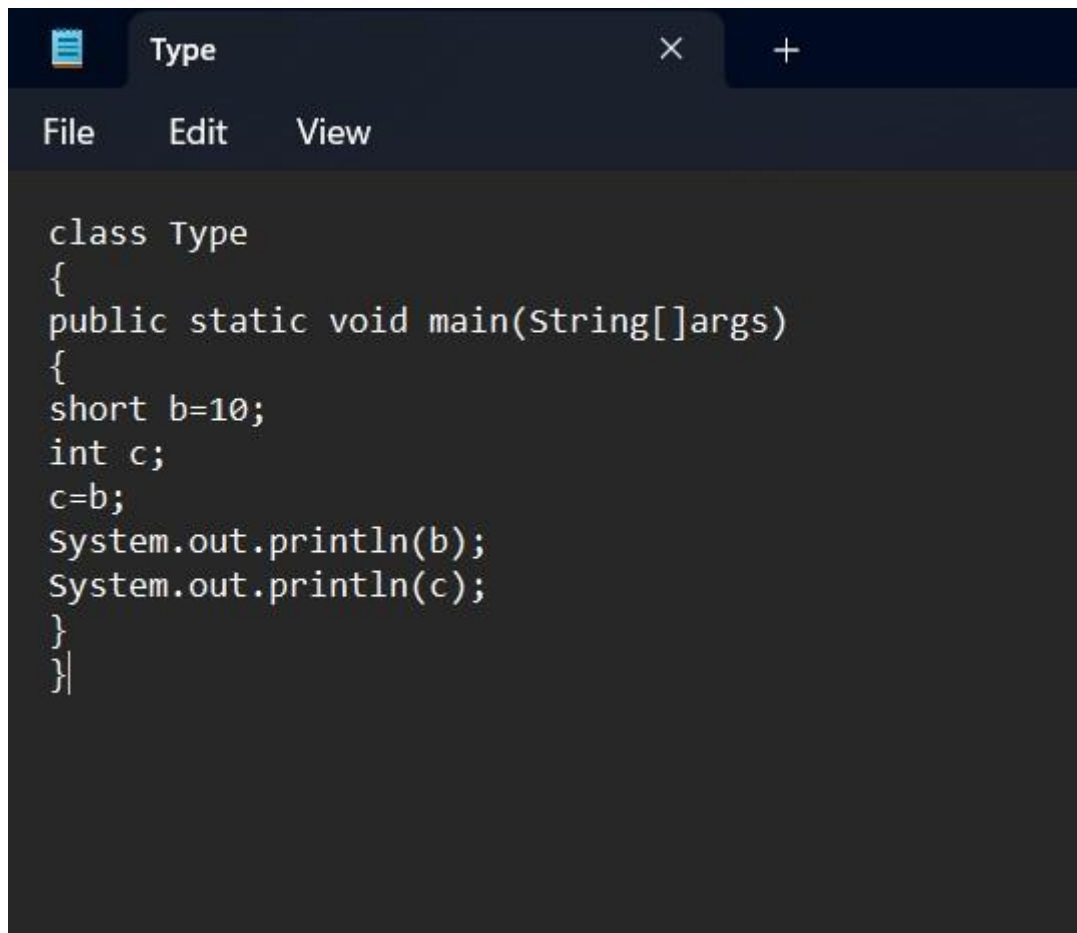
C:\Users\pavan\OneDrive\Desktop>javac Type.java

C:\Users\pavan\OneDrive\Desktop>java Type
101
101
```

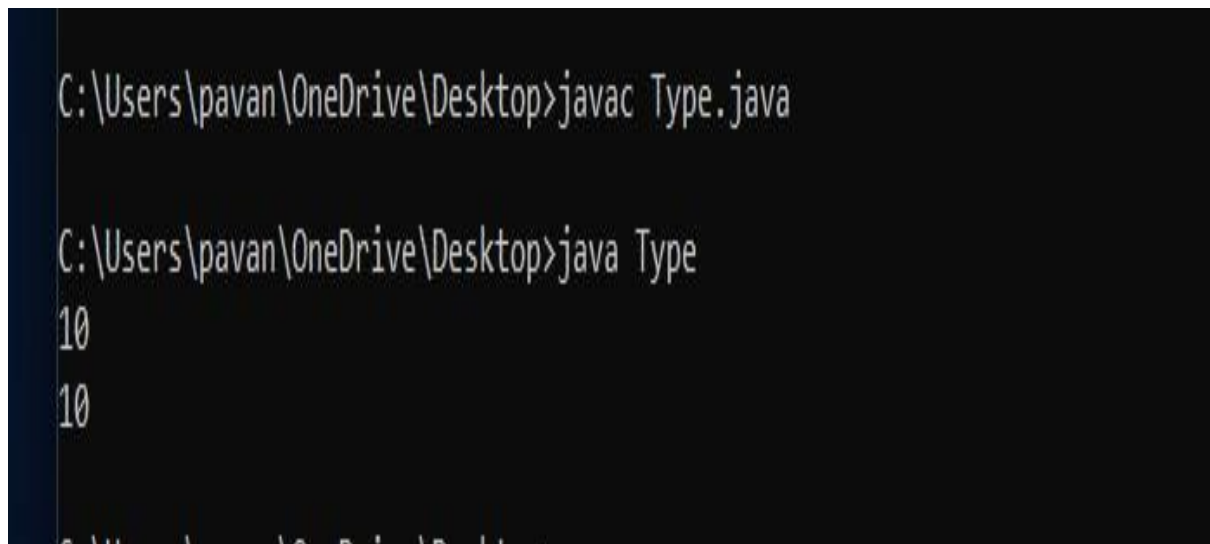
Conclusion: It is possible

Explicit conversion

Program:



```
class Type
{
    public static void main(String[] args)
    {
        short b=10;
        int c;
        c=b;
        System.out.println(b);
        System.out.println(c);
    }
}
```



```
C:\Users\pavan\OneDrive\Desktop>javac Type.java

C:\Users\pavan\OneDrive\Desktop>java Type
10
10
```

Conclusion: It is possible
implicit conversion

program:

Conclusion: It is possible
implicit conversion

program:

```
class Type
{
    public static void main(String[] args)
    {
        short b=30;
        float c;
        c=b;
        System.out.println(b);
        System.out.println(c);
    }
}
```

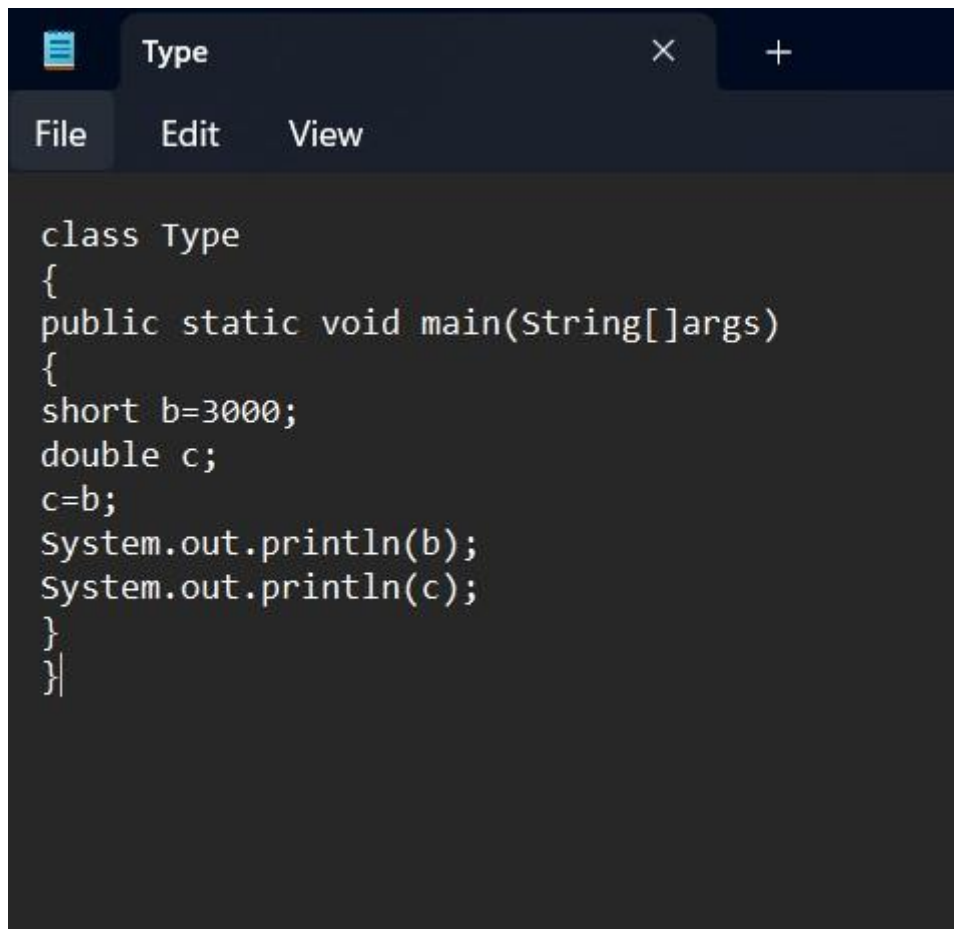
```
C:\Users\pavan\OneDrive\Desktop>javac Type.java

C:\Users\pavan\OneDrive\Desktop>java Type
30
30.0

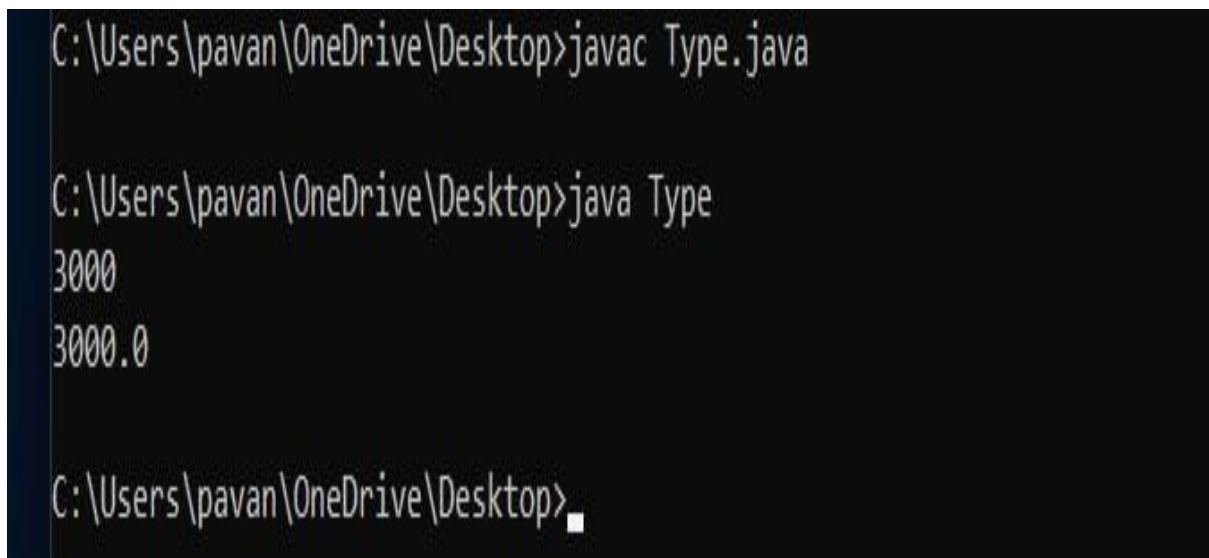
C:\Users\pavan\OneDrive\Desktop>
```

Conclusion: It is possible
implicit conversion

program:



```
class Type
{
    public static void main(String[] args)
    {
        short b=3000;
        double c;
        c=b;
        System.out.println(b);
        System.out.println(c);
    }
}
```



```
C:\Users\pavan\OneDrive\Desktop>javac Type.java

C:\Users\pavan\OneDrive\Desktop>java Type
3000
3000.0

C:\Users\pavan\OneDrive\Desktop>
```

Conclusion: It is possible
implicit conversion

program:

```
class Type
{
    public static void main(String[] args)
    {
        short b=3;
        boolean c;
        c=b;
        System.out.println(b);
        System.out.println(c);
    }
}
```

```
C:\Users\pavan\OneDrive\Desktop>javac Type.java
Type.java:7: error: incompatible types: short cannot be converted to boolean
    c=b;
    ^
1 error

C:\Users\pavan\OneDrive\Desktop>
```

Conclusion: It is not possible

Program:

```
class Type
{
    public static void main(String[] args)
    {
        int b=65;
        char c;
        c=(char)b;
        System.out.println(b);
        System.out.println(c);
    }
}
```

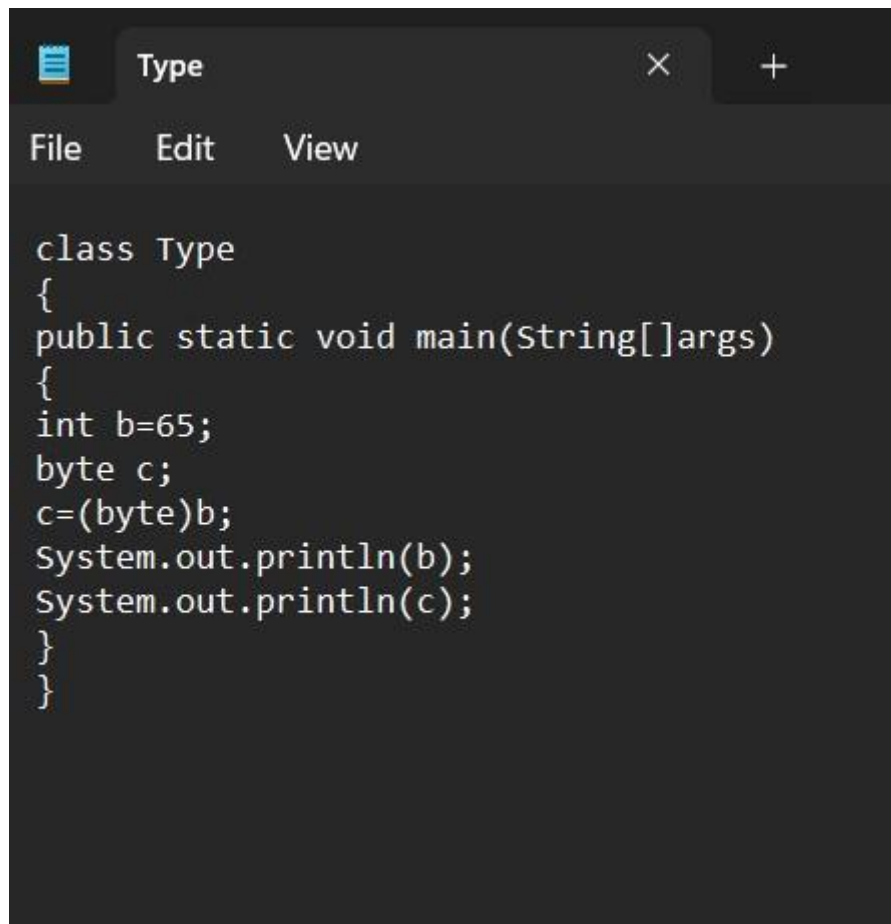
```
C:\Users\pavan\OneDrive\Desktop>javac Type.java

C:\Users\pavan\OneDrive\Desktop>java Type
65
A

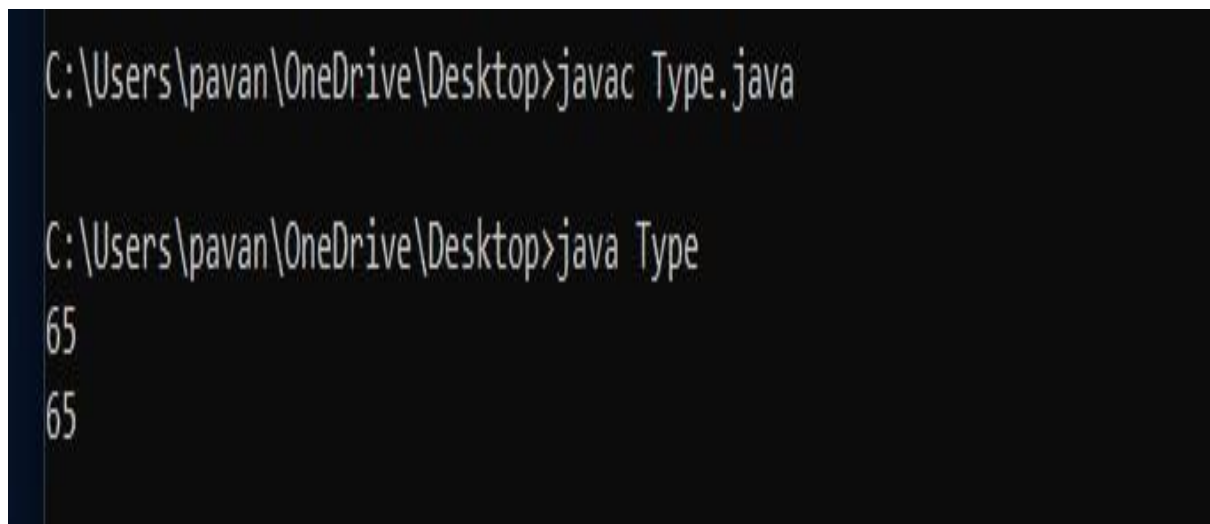
C:\Users\pavan\OneDrive\Desktop>
```

Conclusion: It is possible
explicit conversion

program:



```
class Type
{
    public static void main(String[]args)
    {
        int b=65;
        byte c;
        c=(byte)b;
        System.out.println(b);
        System.out.println(c);
    }
}
```

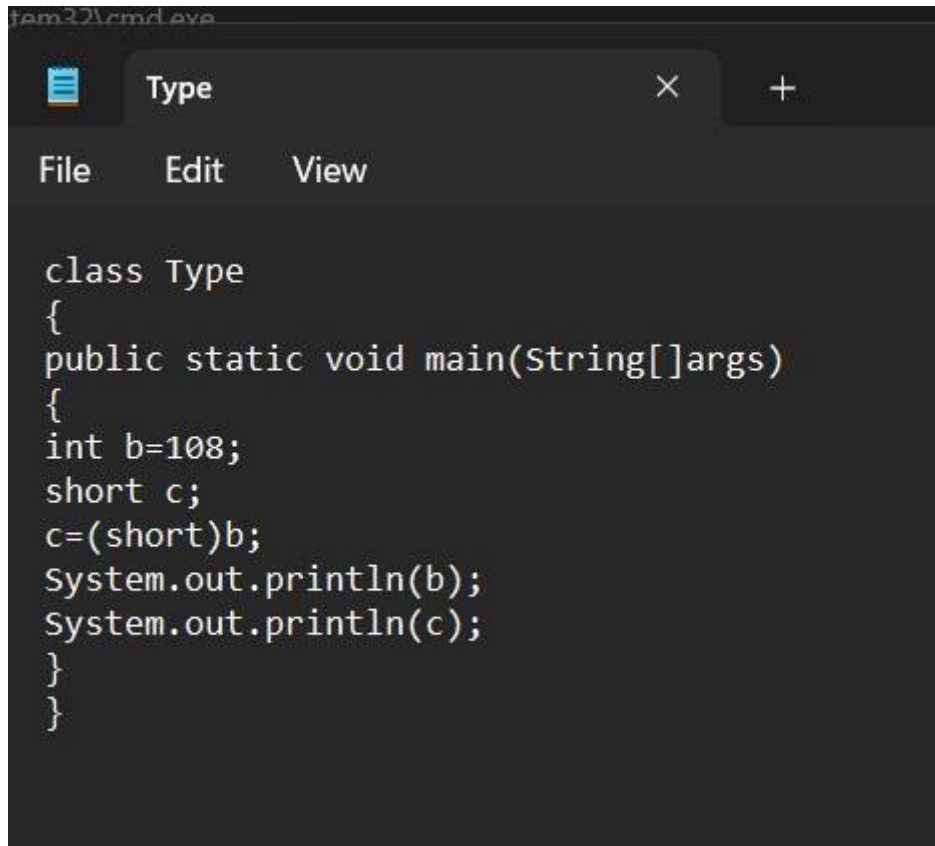


```
C:\Users\pavan\OneDrive\Desktop>javac Type.java

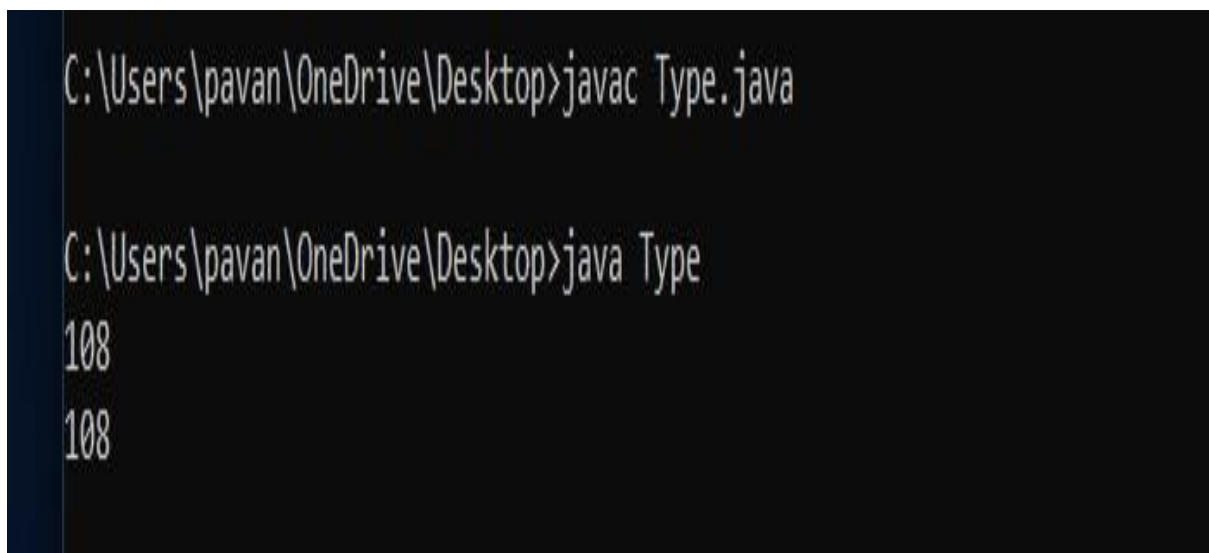
C:\Users\pavan\OneDrive\Desktop>java Type
65
65
```

Conclusion: It is possible
explicit conversion

program:



```
class Type
{
    public static void main(String[]args)
    {
        int b=108;
        short c;
        c=(short)b;
        System.out.println(b);
        System.out.println(c);
    }
}
```

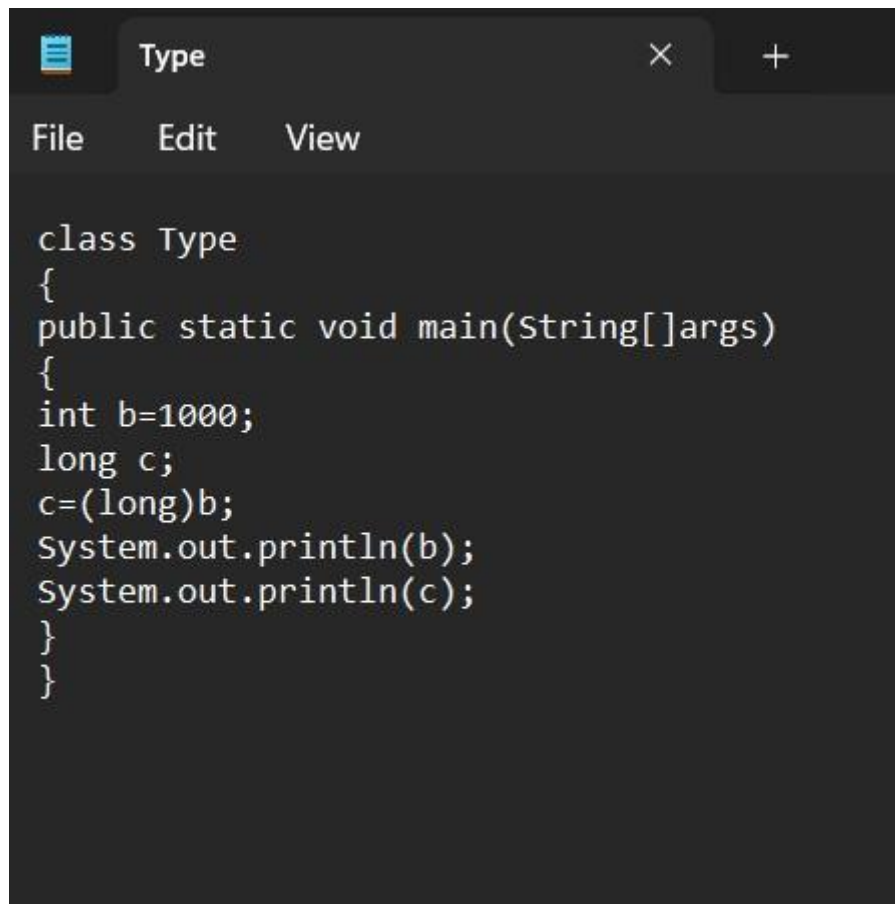


```
C:\Users\pavan\OneDrive\Desktop>javac Type.java

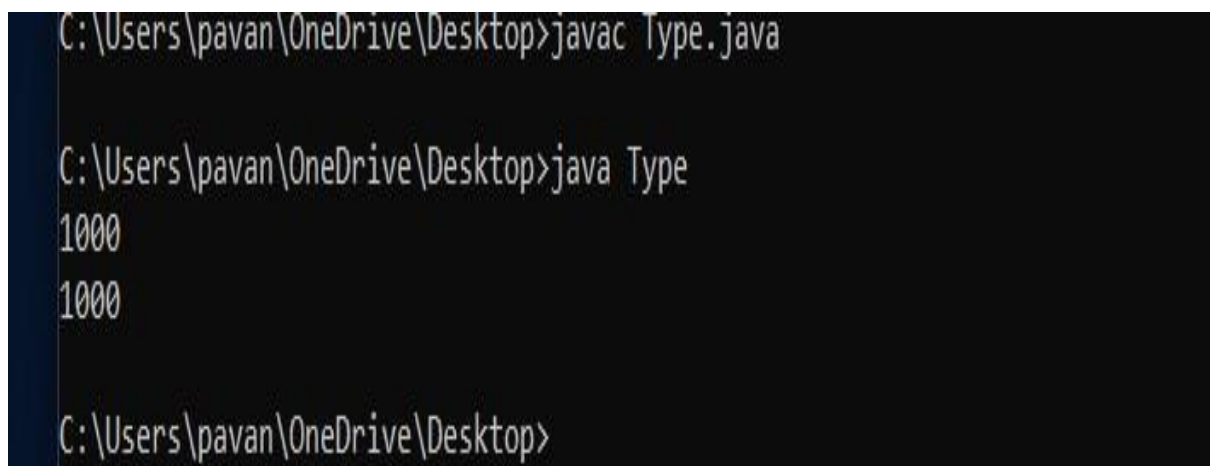
C:\Users\pavan\OneDrive\Desktop>java Type
108
108
```

Conclusion: It is possible
explicit conversion

program



```
class Type
{
    public static void main(String[]args)
    {
        int b=1000;
        long c;
        c=(long)b;
        System.out.println(b);
        System.out.println(c);
    }
}
```



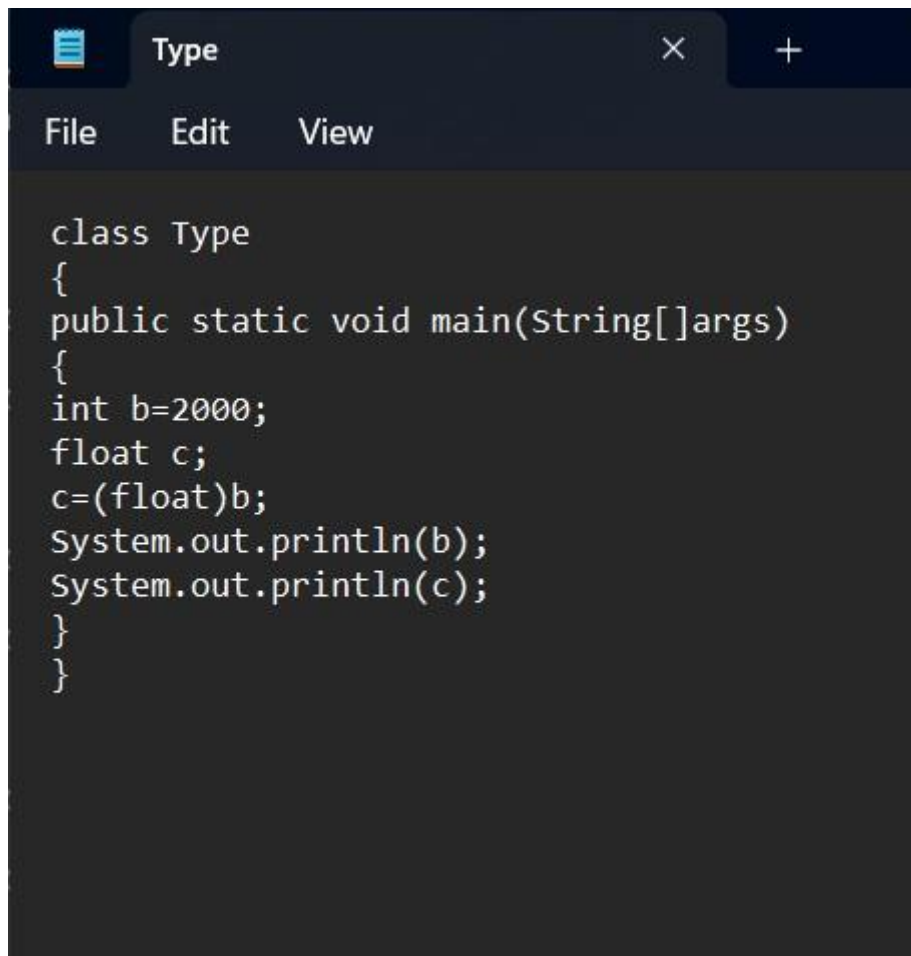
```
C:\Users\pavan\OneDrive\Desktop>javac Type.java

C:\Users\pavan\OneDrive\Desktop>java Type
1000
1000

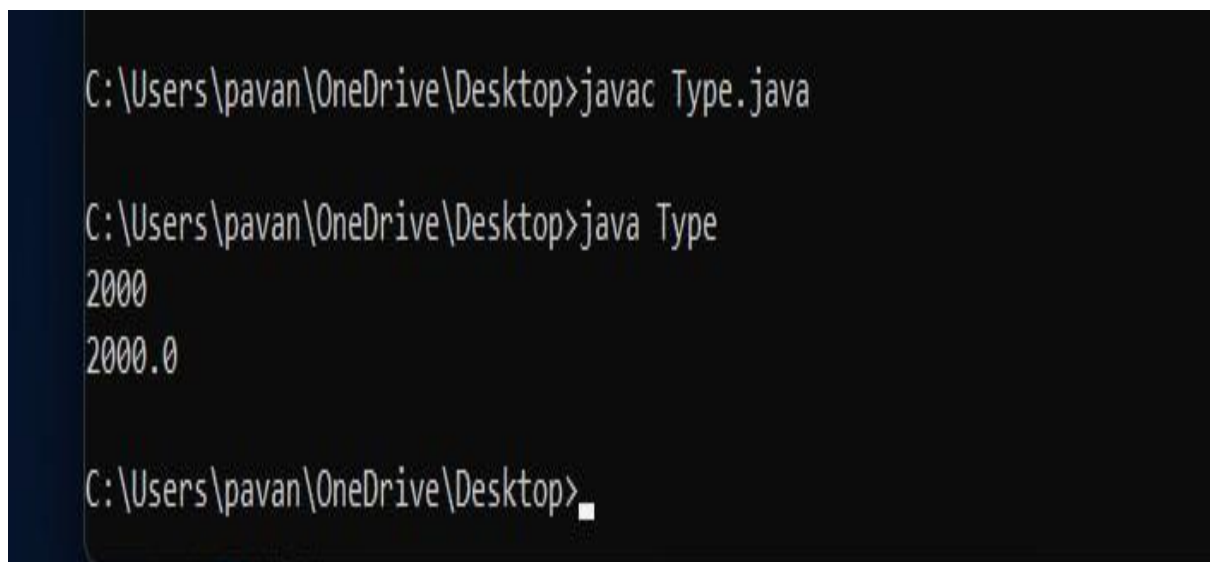
C:\Users\pavan\OneDrive\Desktop>
```

Conclusion: It is possible
explicit conversion

program:



```
class Type
{
    public static void main(String[]args)
    {
        int b=2000;
        float c;
        c=(float)b;
        System.out.println(b);
        System.out.println(c);
    }
}
```



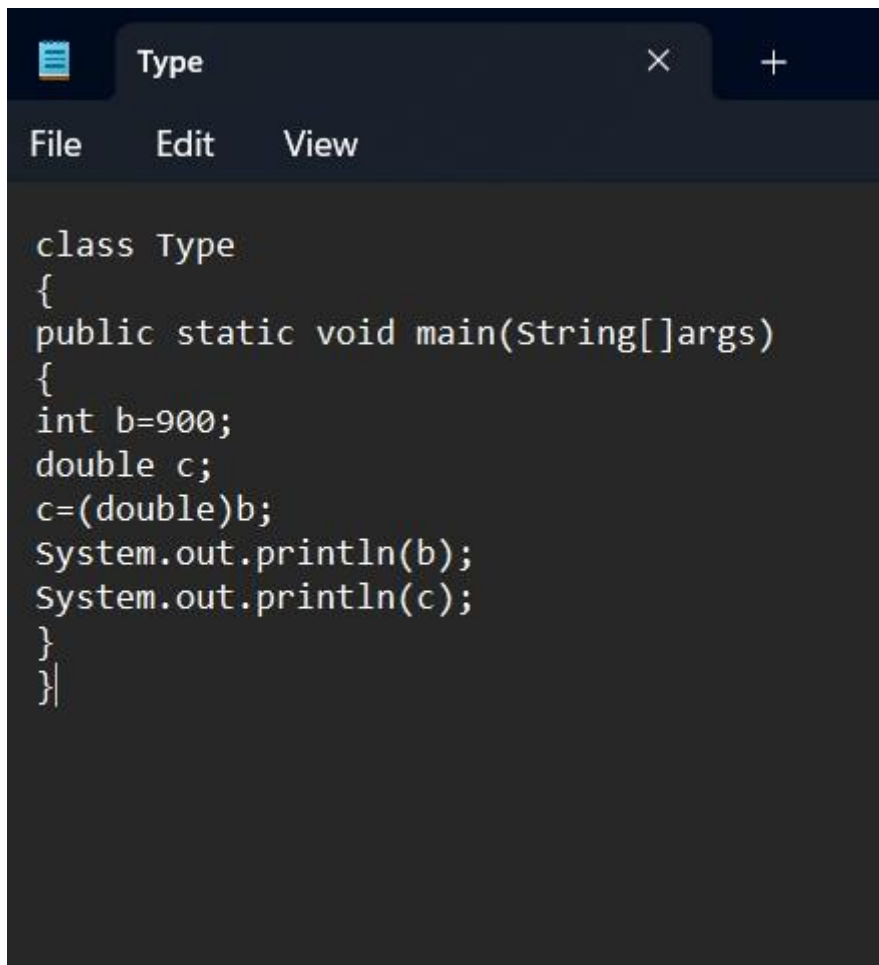
```
C:\Users\pavan\OneDrive\Desktop>javac Type.java

C:\Users\pavan\OneDrive\Desktop>java Type
2000
2000.0

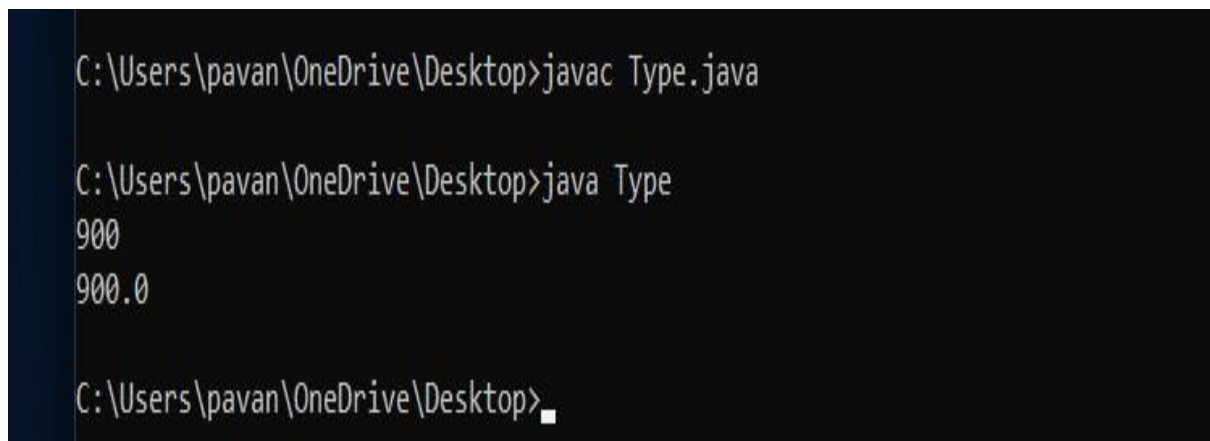
C:\Users\pavan\OneDrive\Desktop>
```

Conclusion: It is possible
explicit conversion

program:



```
class Type
{
    public static void main(String[] args)
    {
        int b=900;
        double c;
        c=(double)b;
        System.out.println(b);
        System.out.println(c);
    }
}
```



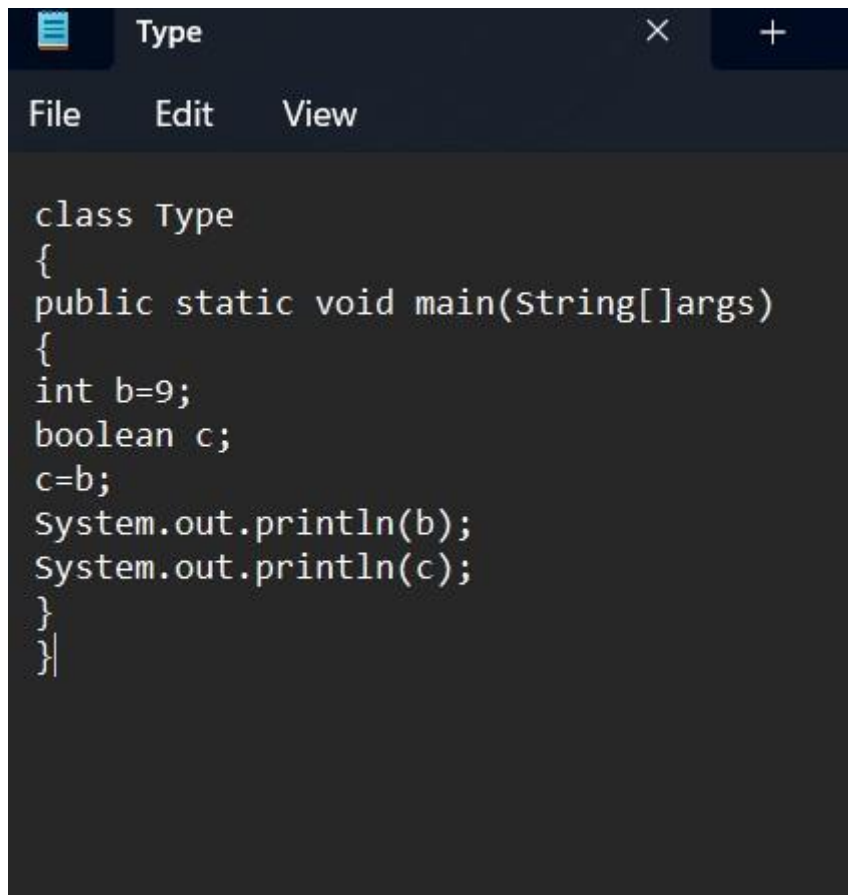
```
C:\Users\pavan\OneDrive\Desktop>javac Type.java

C:\Users\pavan\OneDrive\Desktop>java Type
900
900.0

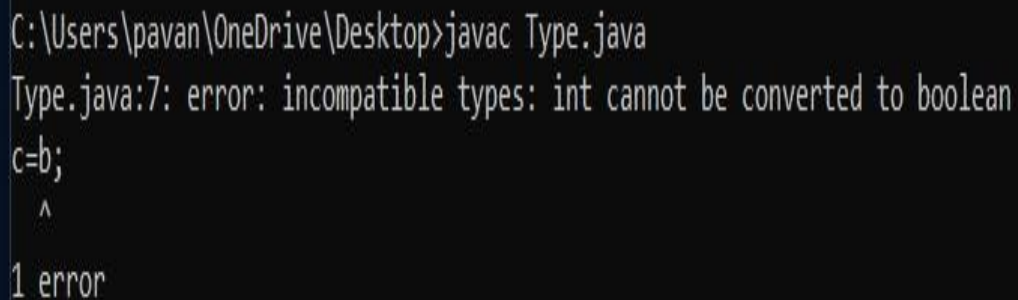
C:\Users\pavan\OneDrive\Desktop>.
```

Conclusion: It is possible
explicit conversion

program:



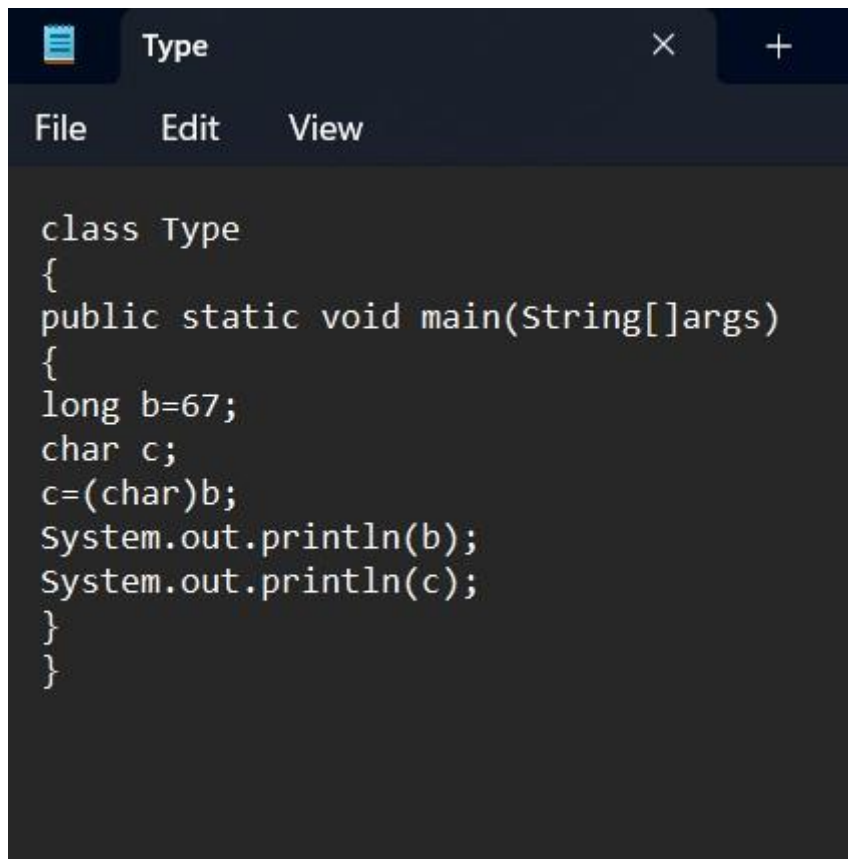
```
class Type
{
    public static void main(String[] args)
    {
        int b=9;
        boolean c;
        c=b;
        System.out.println(b);
        System.out.println(c);
    }
}
```



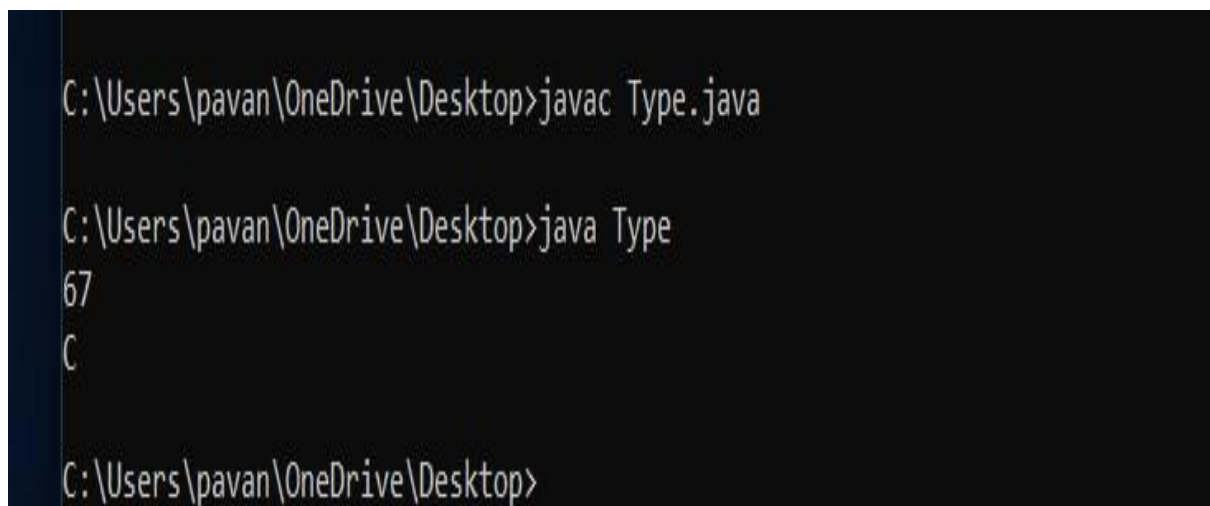
```
C:\Users\pavan\OneDrive\Desktop>javac Type.java
Type.java:7: error: incompatible types: int cannot be converted to boolean
c=b;
  ^
1 error
```

Conclusion: It is not possible

Program:



```
class Type
{
    public static void main(String[] args)
    {
        long b=67;
        char c;
        c=(char)b;
        System.out.println(b);
        System.out.println(c);
    }
}
```



```
C:\Users\pavan\OneDrive\Desktop>javac Type.java

C:\Users\pavan\OneDrive\Desktop>java Type
67
C
C:\Users\pavan\OneDrive\Desktop>
```

Conclusion: It is possible
explicit conversion

program:

```
am32\cmd.exe
Type
File Edit View

class Type
{
public static void main(String[]args)
{
long b=61;
byte c;
c=(byte)b;
System.out.println(b);
System.out.println(c);
}
}
```

```
C:\Users\pavan\OneDrive\Desktop>javac Type.java

C:\Users\pavan\OneDrive\Desktop>java Type
61
61

C:\Users\pavan\OneDrive\Desktop>
```

Conclusion: It is possible
explicit conversion

program:

```
class Type
{
    public static void main(String[] args)
    {
        long b=60;
        short c;
        c=(short)b;
        System.out.println(b);
        System.out.println(c);
    }
}
```

```
C:\Users\pavan\OneDrive\Desktop>java Type
60
60

C:\Users\pavan\OneDrive\Desktop>
```

Conclusion: It is possible
explicit conversion

program:

```
class Type
{
    public static void main(String[] args)
    {
        long b=50;
        int c;
        c=(int)b;
        System.out.println(b);
        System.out.println(c);
    }
}
```

```
C:\Users\pavan\OneDrive\Desktop>javac Type.java
```

```
C:\Users\pavan\OneDrive\Desktop>java Type
```

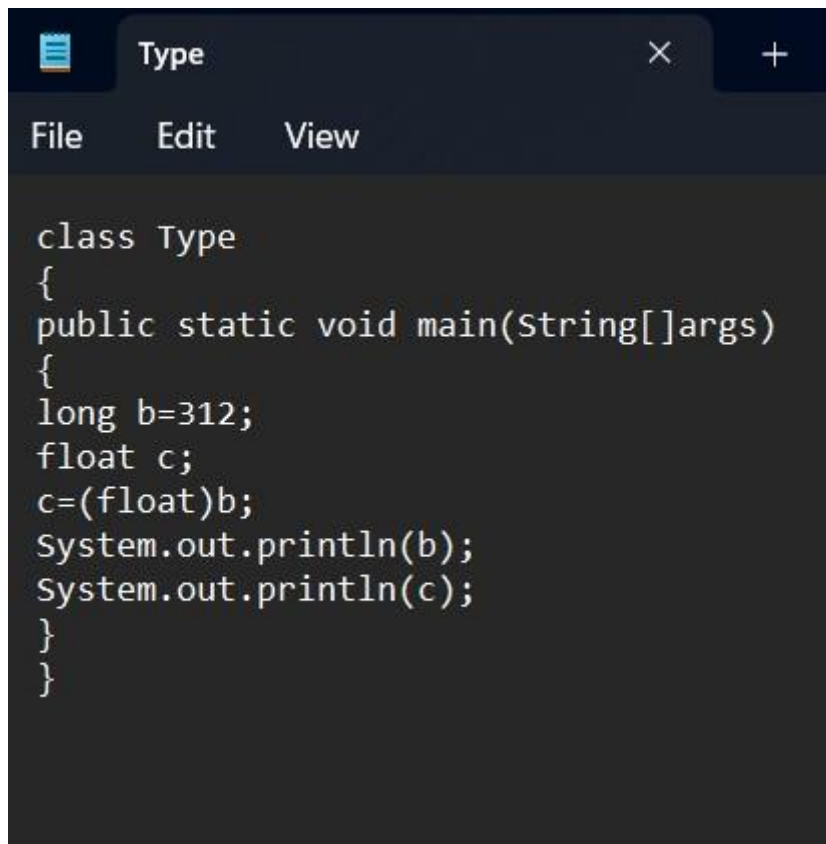
```
50
```

```
50
```

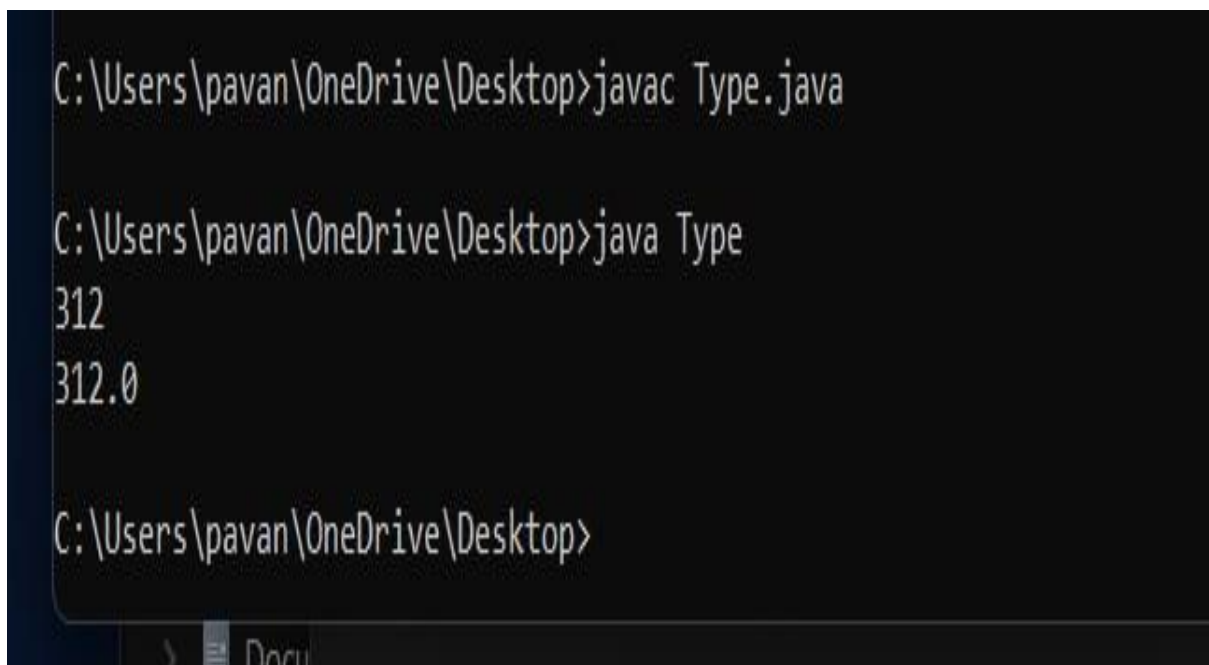
```
C:\Users\pavan\OneDrive\Desktop>
```

Conclusion: It is possible
explicit conversion

program:



```
class Type
{
    public static void main(String[] args)
    {
        long b=312;
        float c;
        c=(float)b;
        System.out.println(b);
        System.out.println(c);
    }
}
```



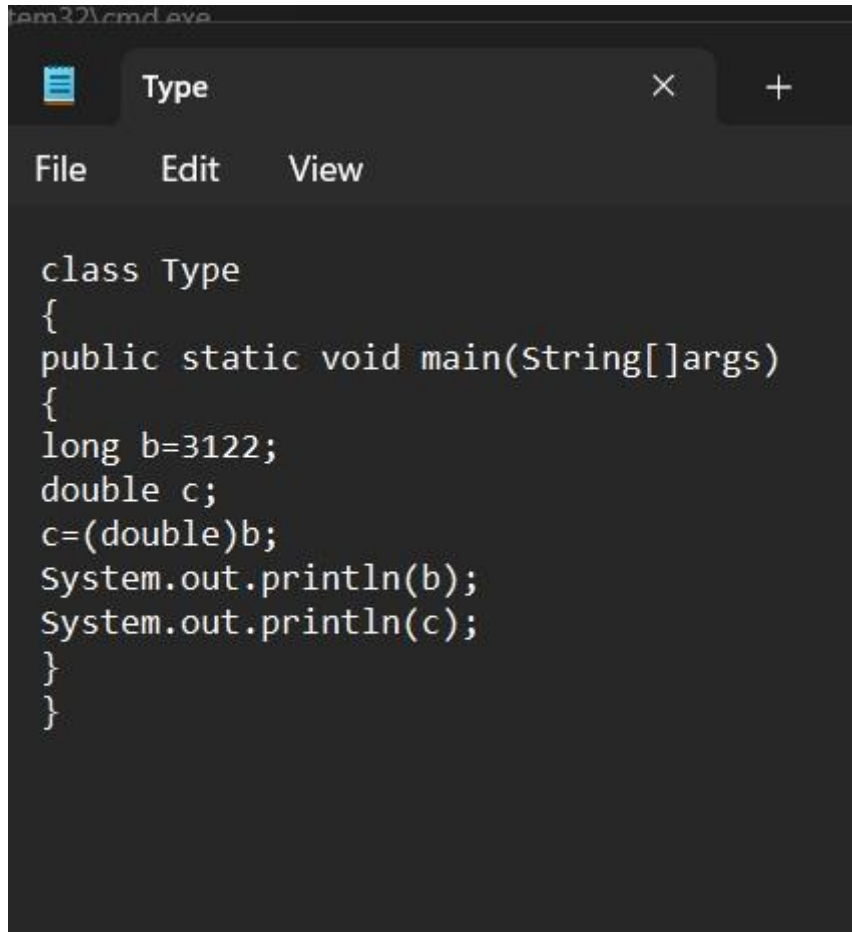
```
C:\Users\pavan\OneDrive\Desktop>javac Type.java

C:\Users\pavan\OneDrive\Desktop>java Type
312
312.0

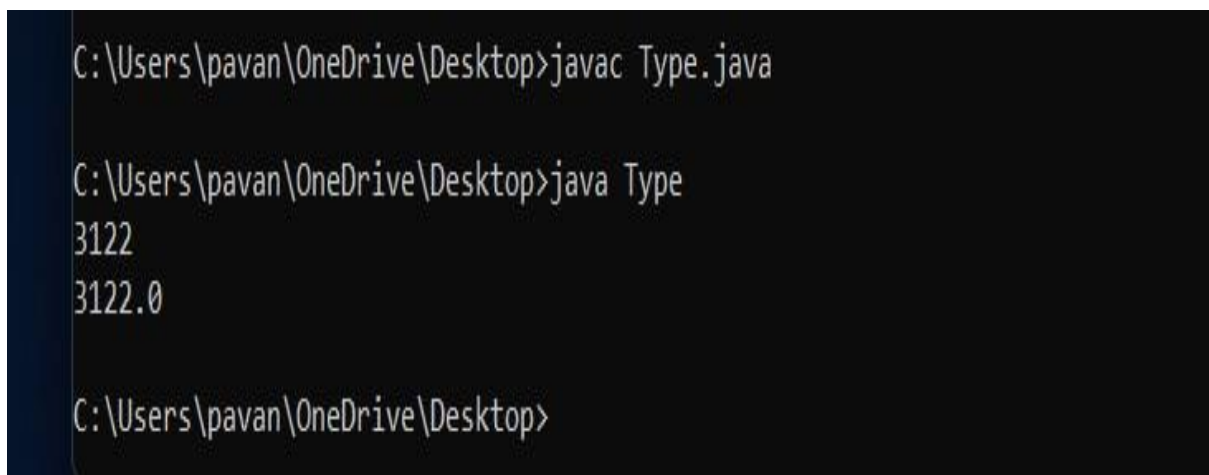
C:\Users\pavan\OneDrive\Desktop>
```

Conclusion: It is possible
explicit conversion

program:



```
class Type
{
    public static void main(String[] args)
    {
        long b=3122;
        double c;
        c=(double)b;
        System.out.println(b);
        System.out.println(c);
    }
}
```



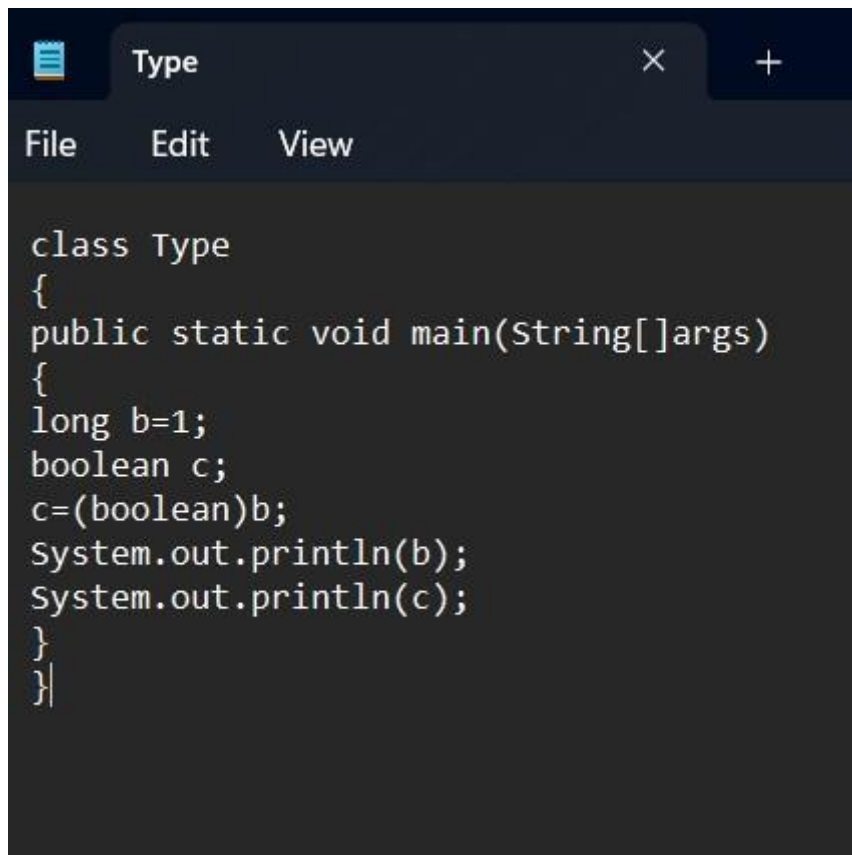
```
C:\Users\pavan\OneDrive\Desktop>javac Type.java

C:\Users\pavan\OneDrive\Desktop>java Type
3122
3122.0

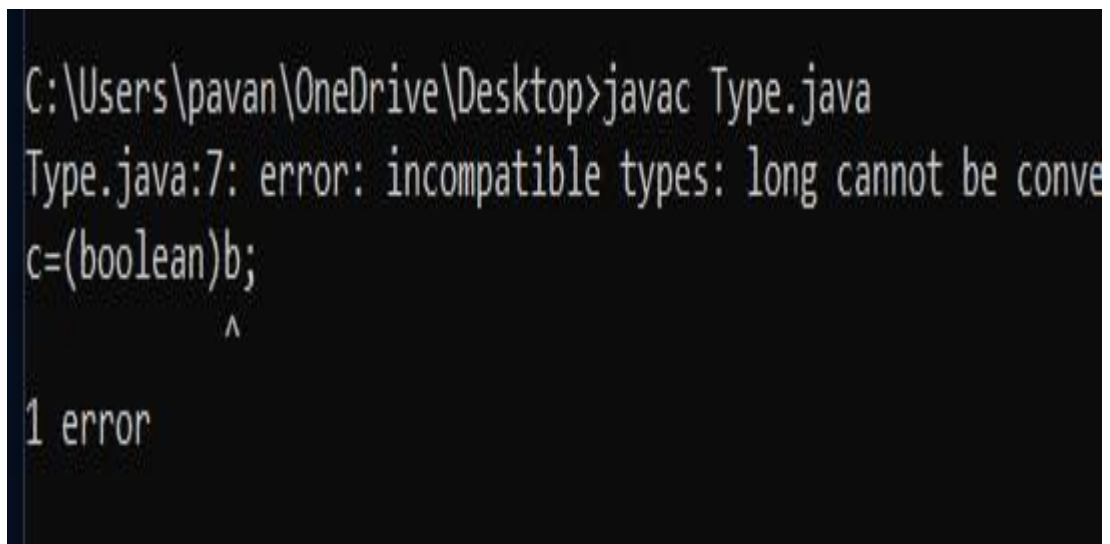
C:\Users\pavan\OneDrive\Desktop>
```

Conclusion: It is possible
explicit conversion

program:



```
class Type
{
    public static void main(String[] args)
    {
        long b=1;
        boolean c;
        c=(boolean)b;
        System.out.println(b);
        System.out.println(c);
    }
}
```



```
C:\Users\pavan\OneDrive\Desktop>javac Type.java
Type.java:7: error: incompatible types: long cannot be converted to boolean
        c=(boolean)b;
                ^
1 error
```

Conclusion: It is not possible

Program:

```
class Type
{
    public static void main(String[]args)
    {
        float b=97.0f;
        char c;
        c=(char)b;
        System.out.println(b);
        System.out.println(c);
    }
}
```

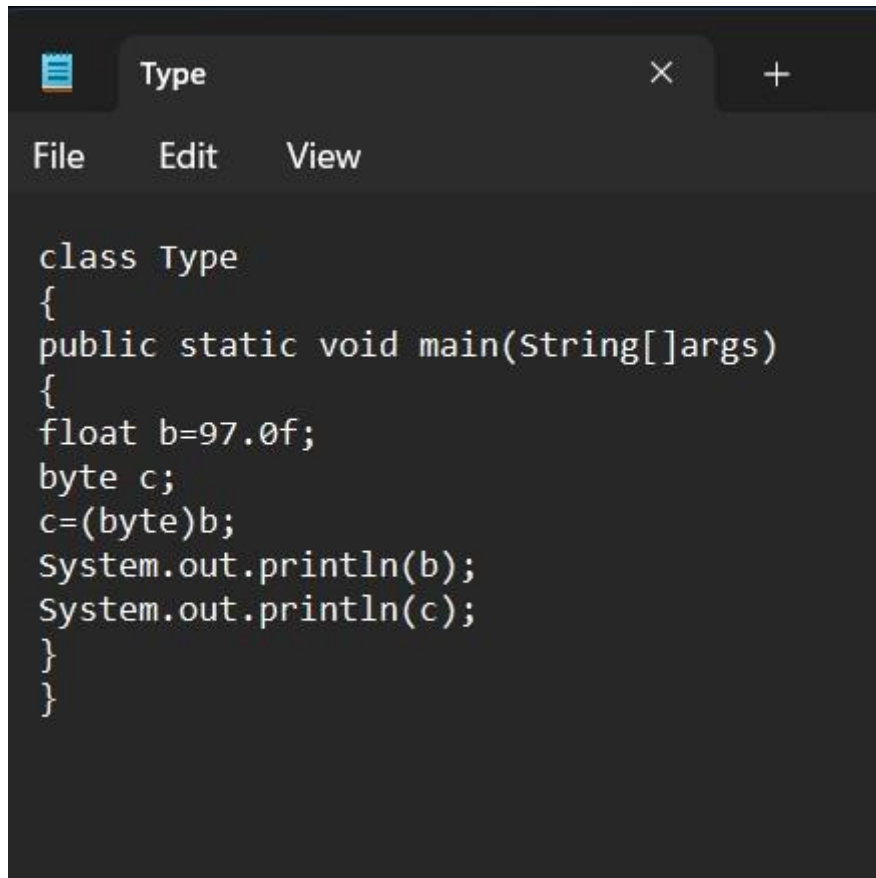
```
C:\Users\pavan\OneDrive\Desktop>javac Type.java

C:\Users\pavan\OneDrive\Desktop>java Type
97.0
a

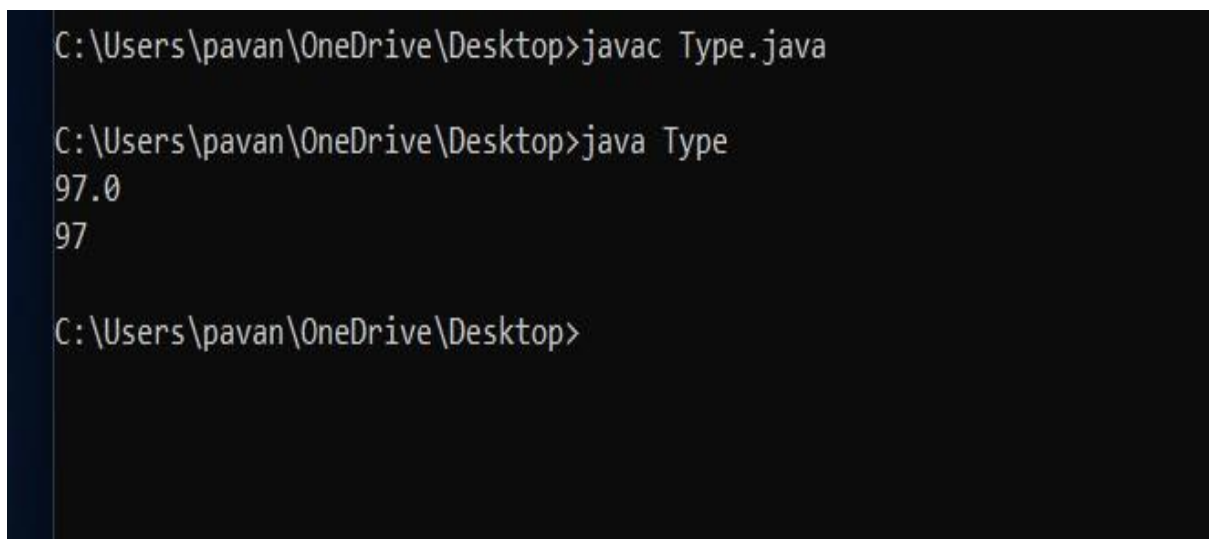
C:\Users\pavan\OneDrive\Desktop>_
```

Conclusion: It is possible
explicit conversion

program:



```
class Type
{
    public static void main(String[]args)
    {
        float b=97.0f;
        byte c;
        c=(byte)b;
        System.out.println(b);
        System.out.println(c);
    }
}
```



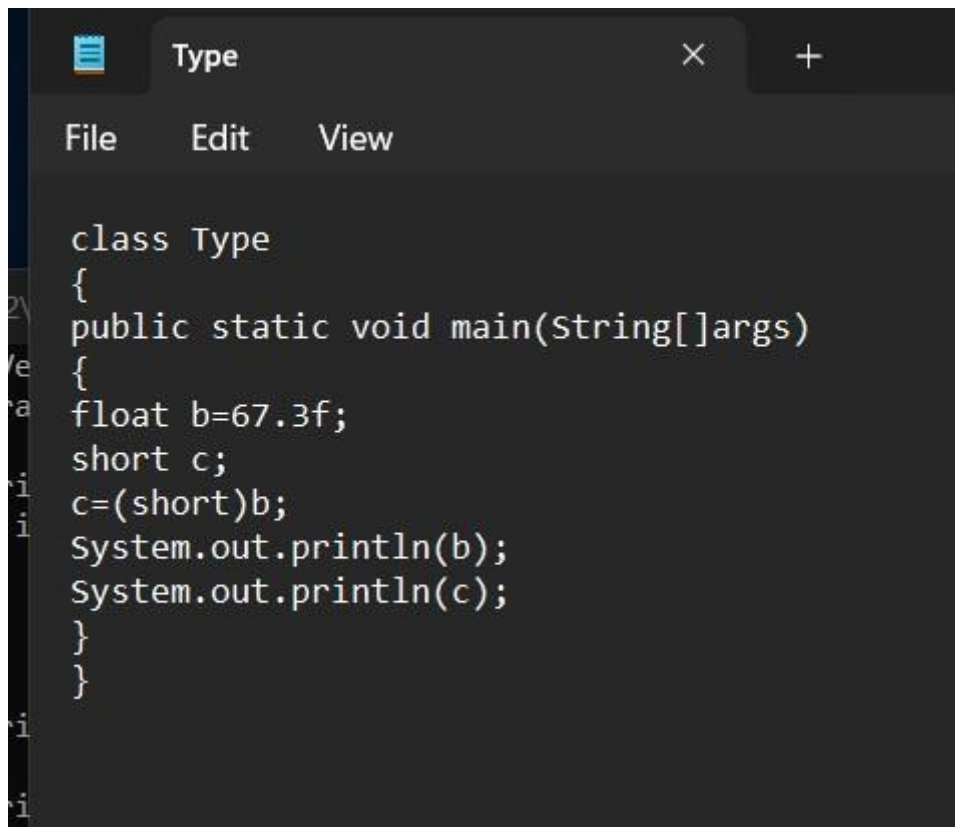
```
C:\Users\pavan\OneDrive\Desktop>javac Type.java

C:\Users\pavan\OneDrive\Desktop>java Type
97.0
97

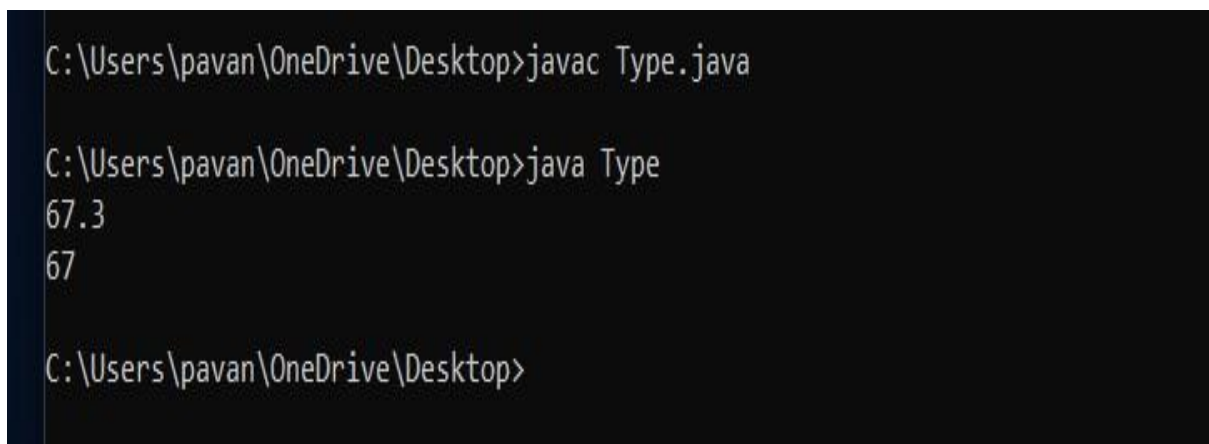
C:\Users\pavan\OneDrive\Desktop>
```

Conclusion: It is possible
explicit conversion

program:



```
class Type
{
    public static void main(String[] args)
    {
        float b=67.3f;
        short c;
        c=(short)b;
        System.out.println(b);
        System.out.println(c);
    }
}
```



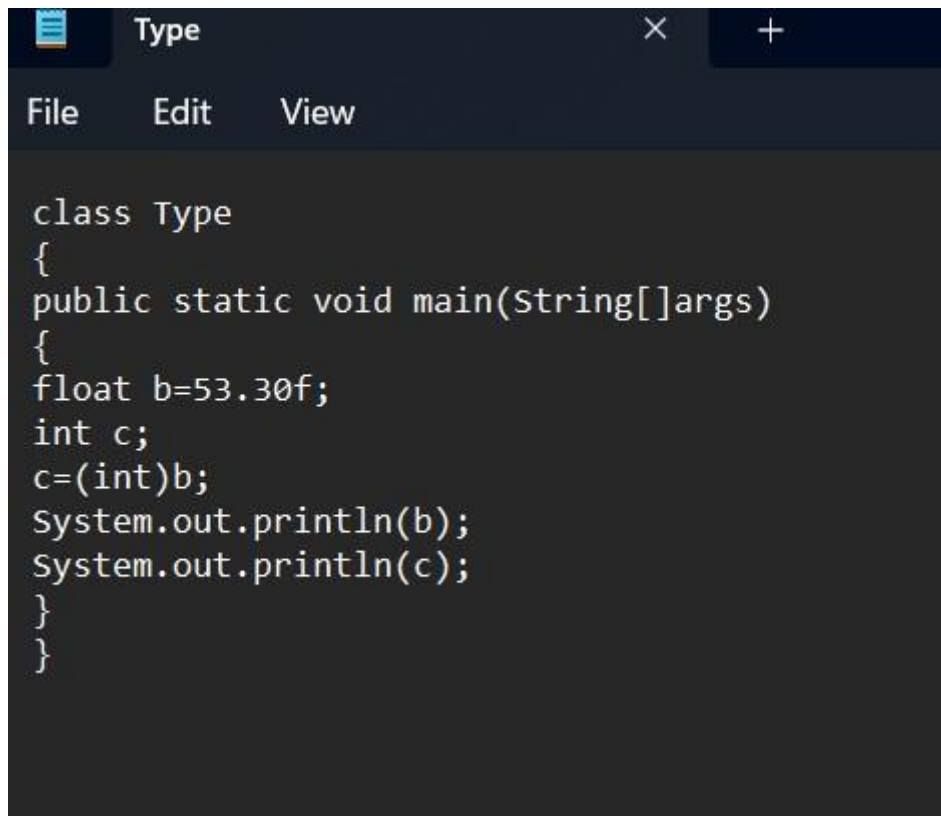
```
C:\Users\pavan\OneDrive\Desktop>javac Type.java

C:\Users\pavan\OneDrive\Desktop>java Type
67.3
67

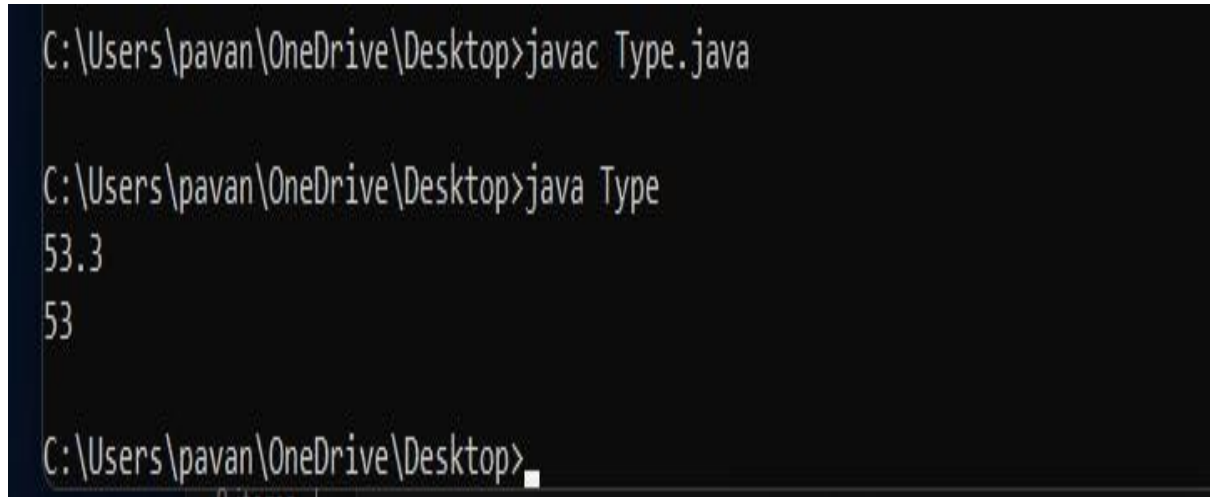
C:\Users\pavan\OneDrive\Desktop>
```

Conclusion: It is possible
explicit conversion

program



```
class Type
{
    public static void main(String[] args)
    {
        float b=53.30f;
        int c;
        c=(int)b;
        System.out.println(b);
        System.out.println(c);
    }
}
```



```
C:\Users\pavan\OneDrive\Desktop>javac Type.java

C:\Users\pavan\OneDrive\Desktop>java Type
53.3
53

C:\Users\pavan\OneDrive\Desktop>
```

Conclusion: It is possible
explicit conversion

program:

```
class Type
{
    public static void main(String[] args)
    {
        float b=532.30f;
        long c;
        c=(long)b;
        System.out.println(b);
        System.out.println(c);
    }
}
```

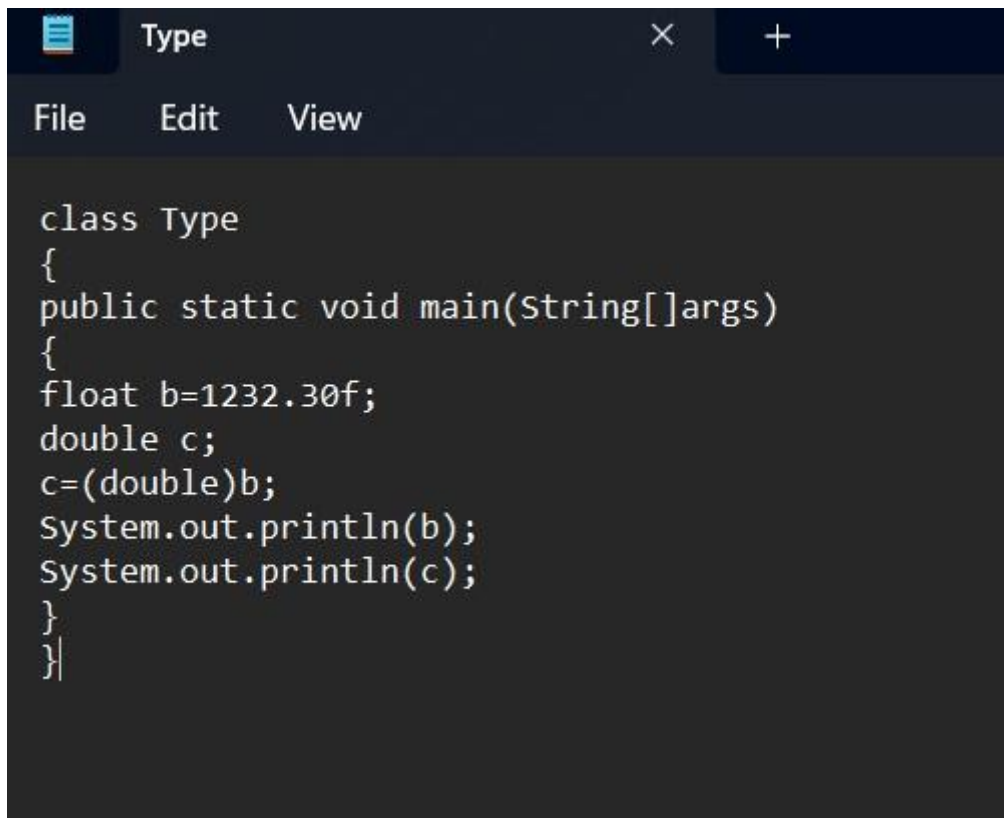
```
C:\Users\pavan\OneDrive\Desktop>javac Type.java

C:\Users\pavan\OneDrive\Desktop>java Type
532.3
532

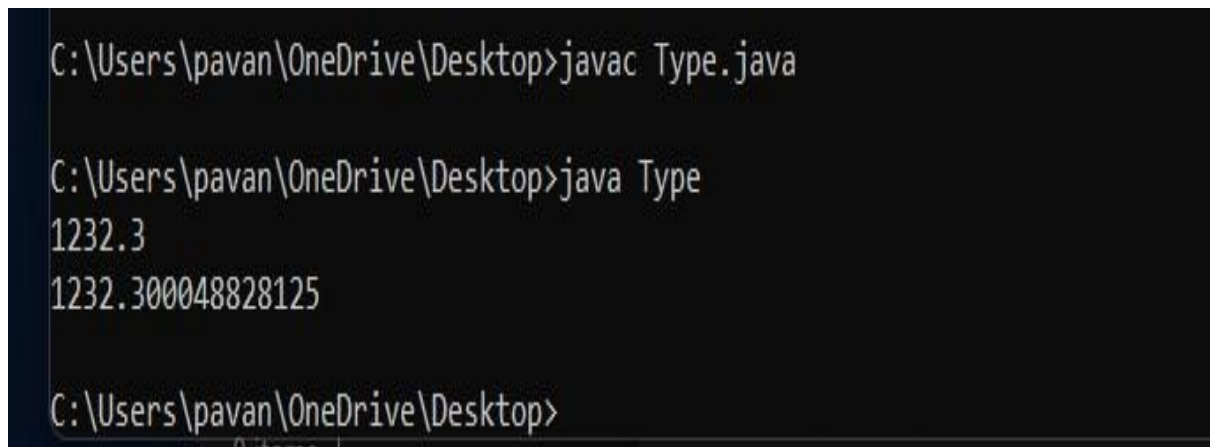
C:\Users\pavan\OneDrive\Desktop>
```

Conclusion: It is possible
explicit conversion

program:



```
class Type
{
    public static void main(String[] args)
    {
        float b=1232.30f;
        double c;
        c=(double)b;
        System.out.println(b);
        System.out.println(c);
    }
}
```



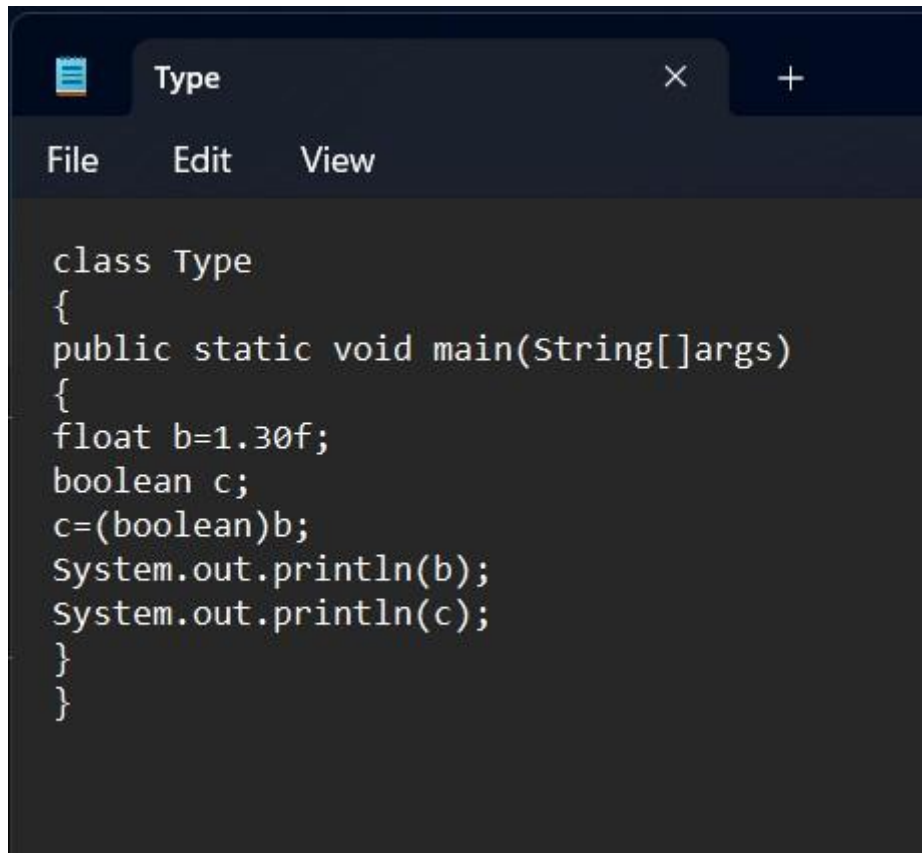
```
C:\Users\pavan\OneDrive\Desktop>javac Type.java

C:\Users\pavan\OneDrive\Desktop>java Type
1232.3
1232.300048828125

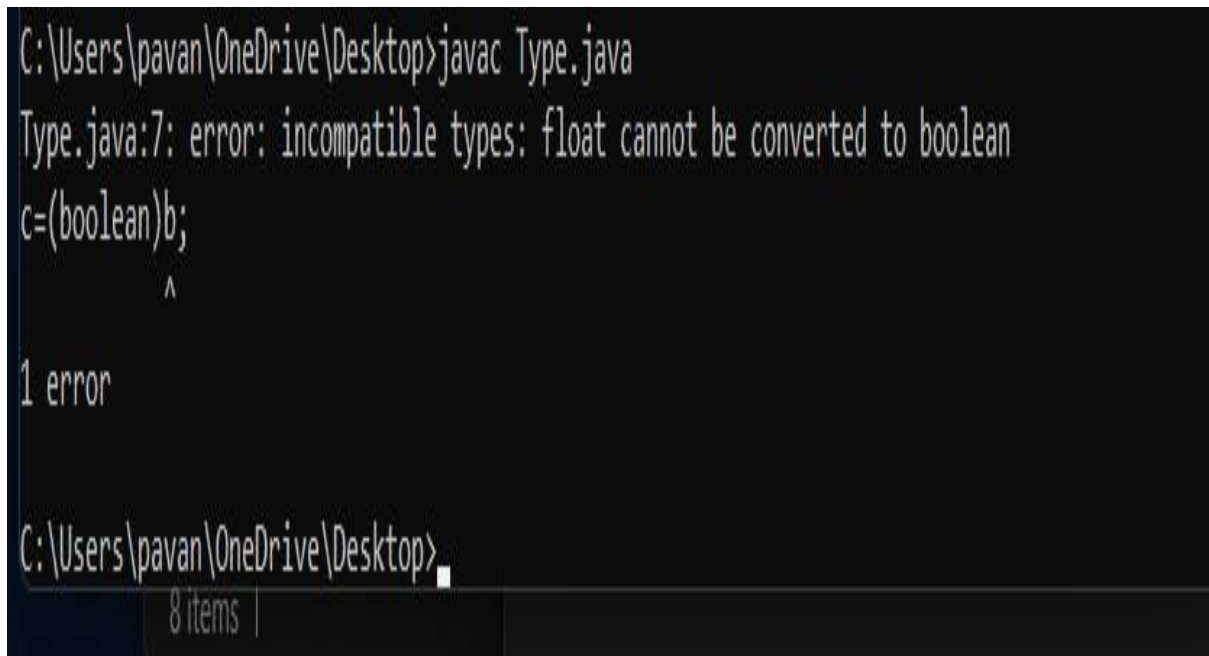
C:\Users\pavan\OneDrive\Desktop>
```

Conclusion: It is possible
explicit conversion

program:



```
class Type
{
    public static void main(String[] args)
    {
        float b=1.30f;
        boolean c;
        c=(boolean)b;
        System.out.println(b);
        System.out.println(c);
    }
}
```

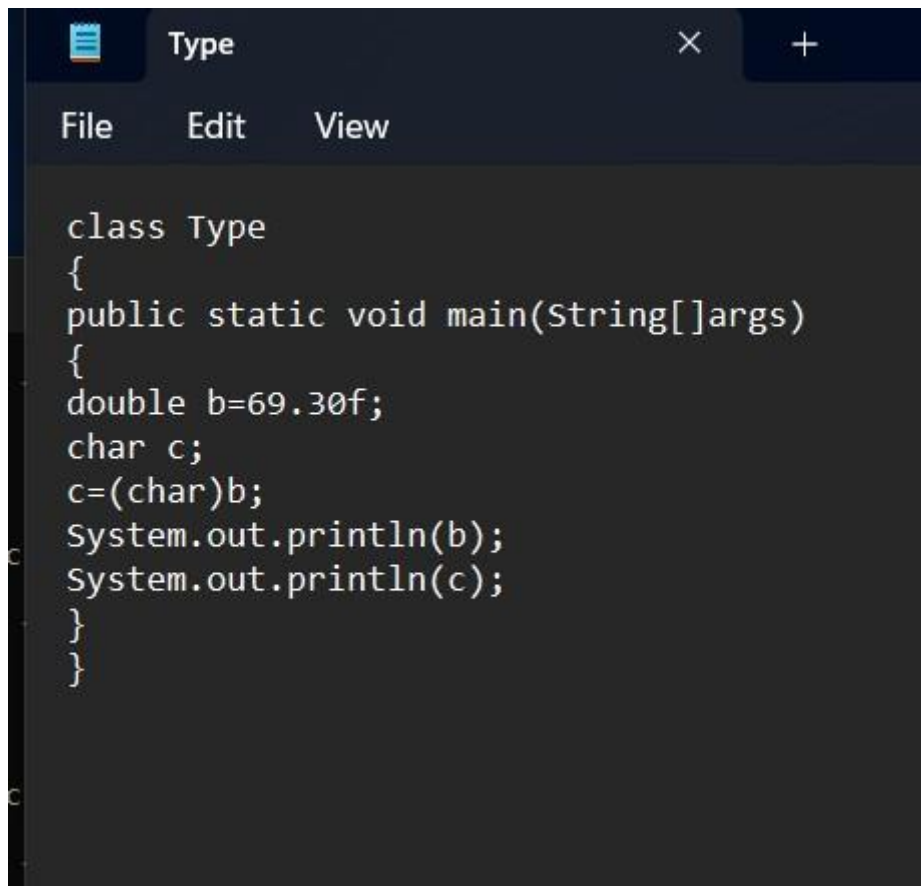


```
C:\Users\pavan\OneDrive\Desktop>javac Type.java
Type.java:7: error: incompatible types: float cannot be converted to boolean
    c=(boolean)b;
        ^
1 error

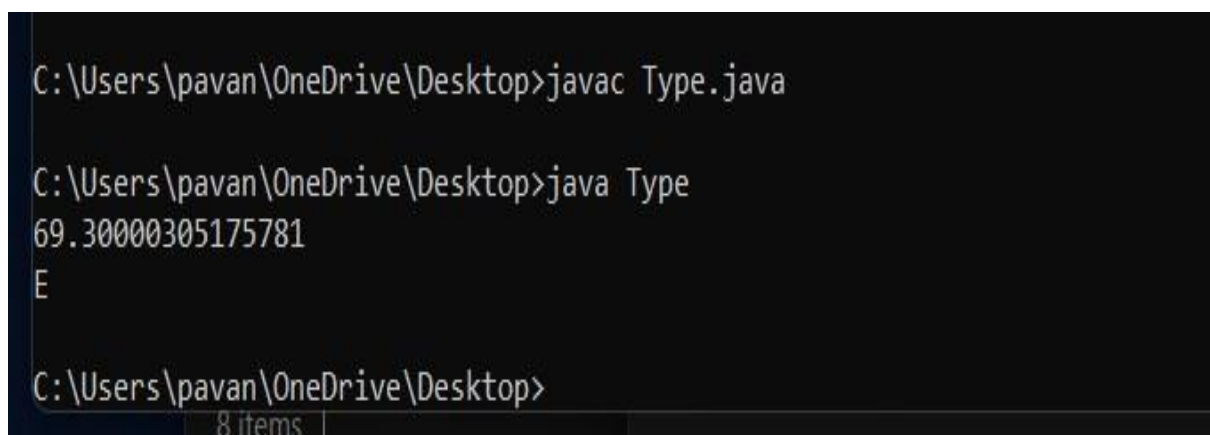
C:\Users\pavan\OneDrive\Desktop>
```

Conclusion: It is not possible

Program:

A screenshot of a code editor window with a dark theme. The window has a title bar with a file icon, the name 'Type', and standard window controls (close, maximize, and a plus sign for additional options). Below the title bar is a menu bar with 'File', 'Edit', and 'View'. The main area contains the following Java code:

```
class Type
{
    public static void main(String[] args)
    {
        double b=69.30f;
        char c;
        c=(char)b;
        System.out.println(b);
        System.out.println(c);
    }
}
```

A screenshot of a Windows command prompt window with a dark background. It shows the compilation and execution of the Java program. The commands and their outputs are as follows:

```
C:\Users\pavan\OneDrive\Desktop>javac Type.java

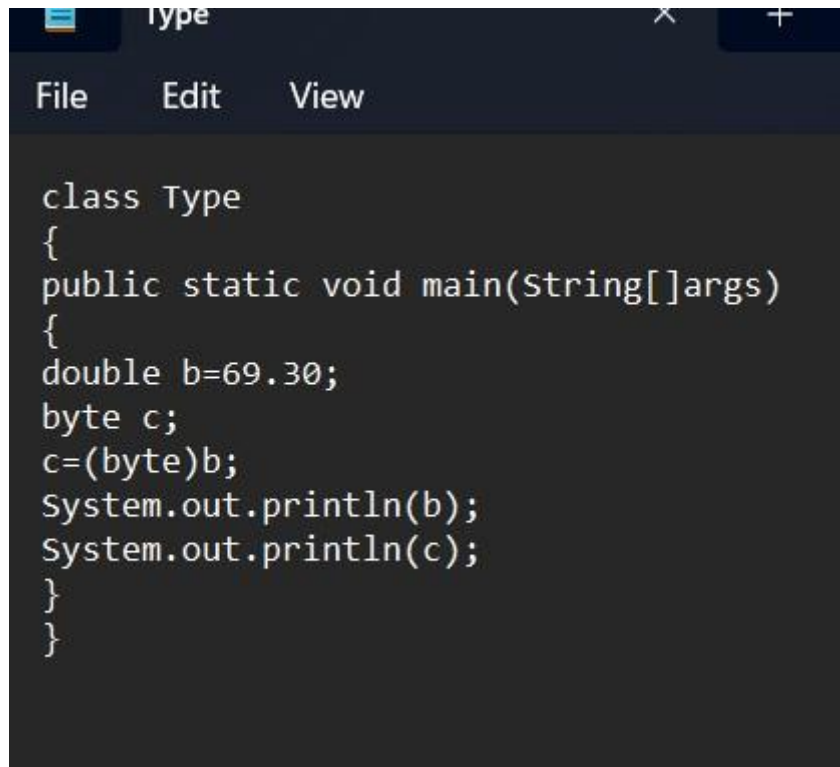
C:\Users\pavan\OneDrive\Desktop>java Type
69.30000305175781
E

C:\Users\pavan\OneDrive\Desktop>
```

At the bottom of the window, there is a status bar that says '8 items'.

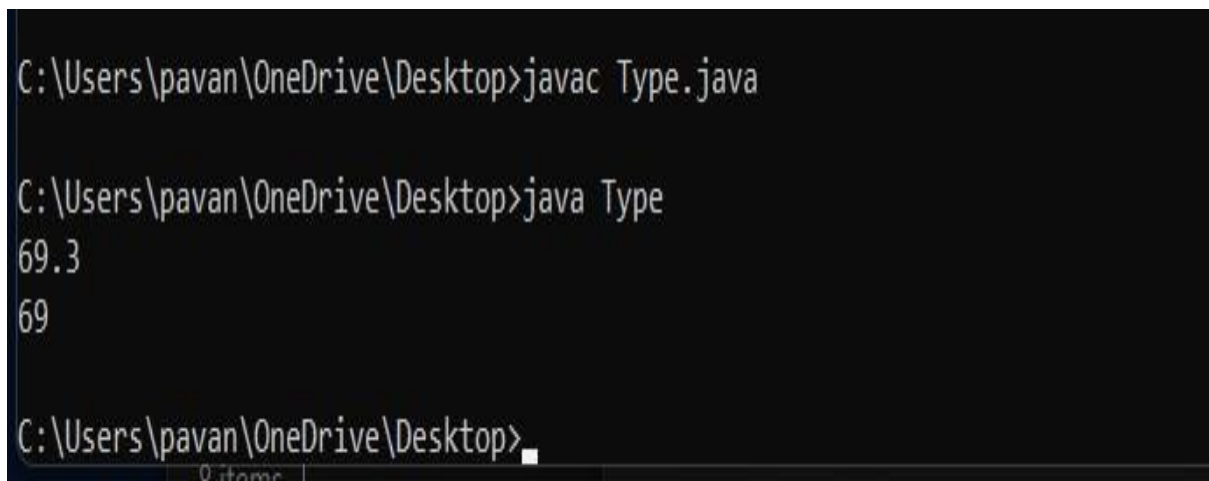
Conclusion: It is possible
explicit conversion

program:



```
File Edit View

class Type
{
    public static void main(String[] args)
    {
        double b=69.30;
        byte c;
        c=(byte)b;
        System.out.println(b);
        System.out.println(c);
    }
}
```



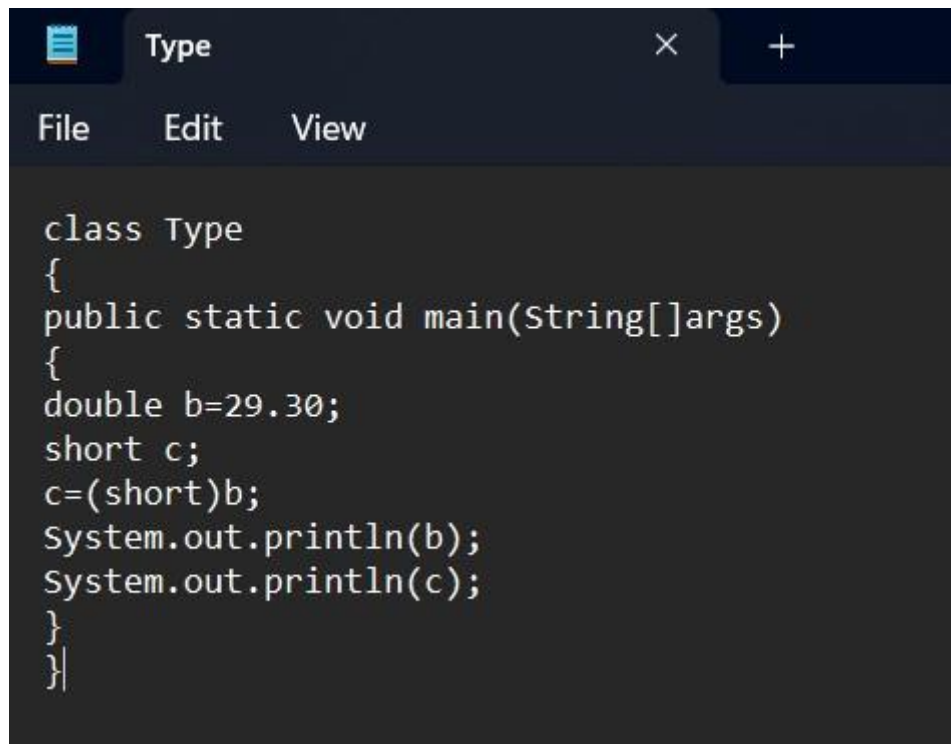
```
C:\Users\pavan\OneDrive\Desktop>javac Type.java

C:\Users\pavan\OneDrive\Desktop>java Type
69.3
69

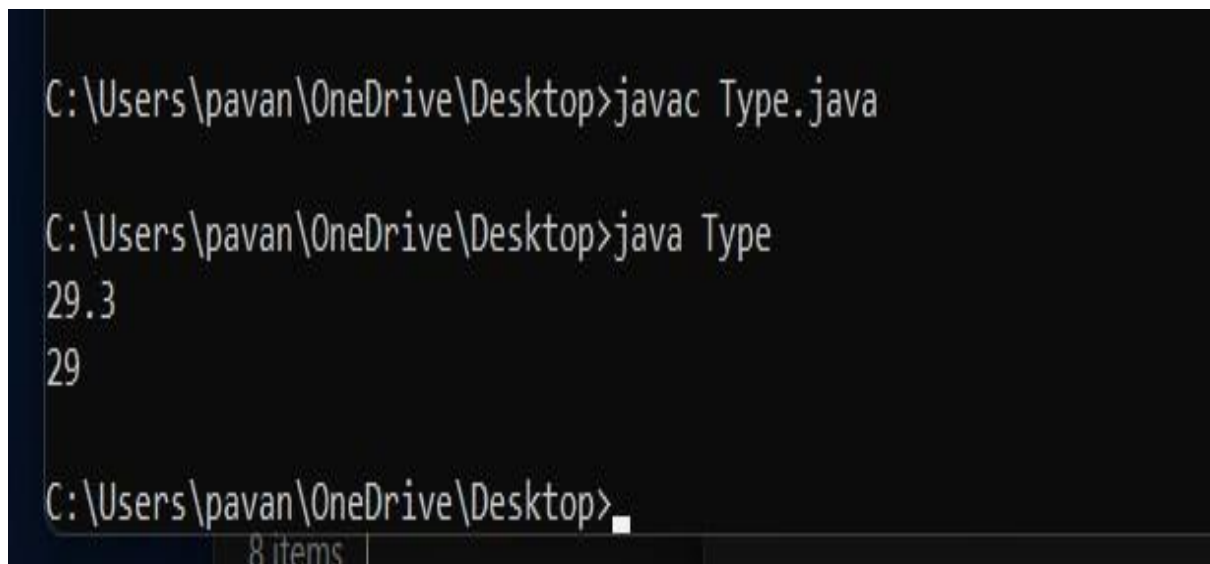
C:\Users\pavan\OneDrive\Desktop>
```

Conclusion: It is possible
explicit conversion

program:



```
class Type
{
    public static void main(String[] args)
    {
        double b=29.30;
        short c;
        c=(short)b;
        System.out.println(b);
        System.out.println(c);
    }
}
```



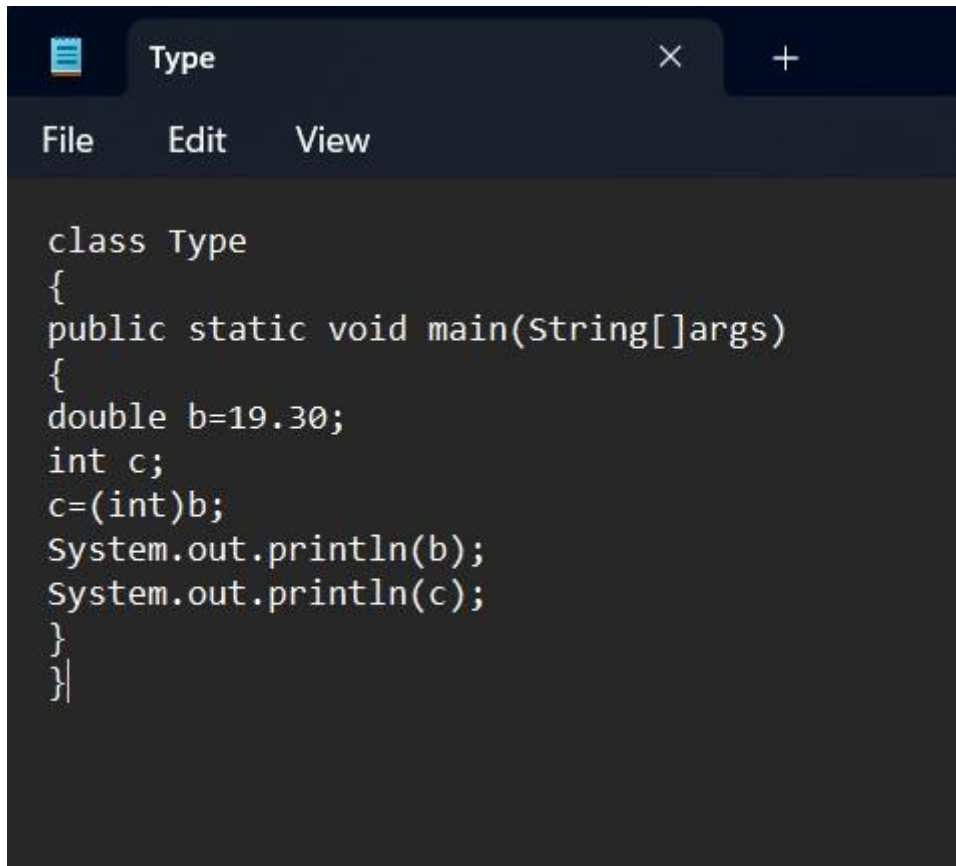
```
C:\Users\pavan\OneDrive\Desktop>javac Type.java

C:\Users\pavan\OneDrive\Desktop>java Type
29.3
29

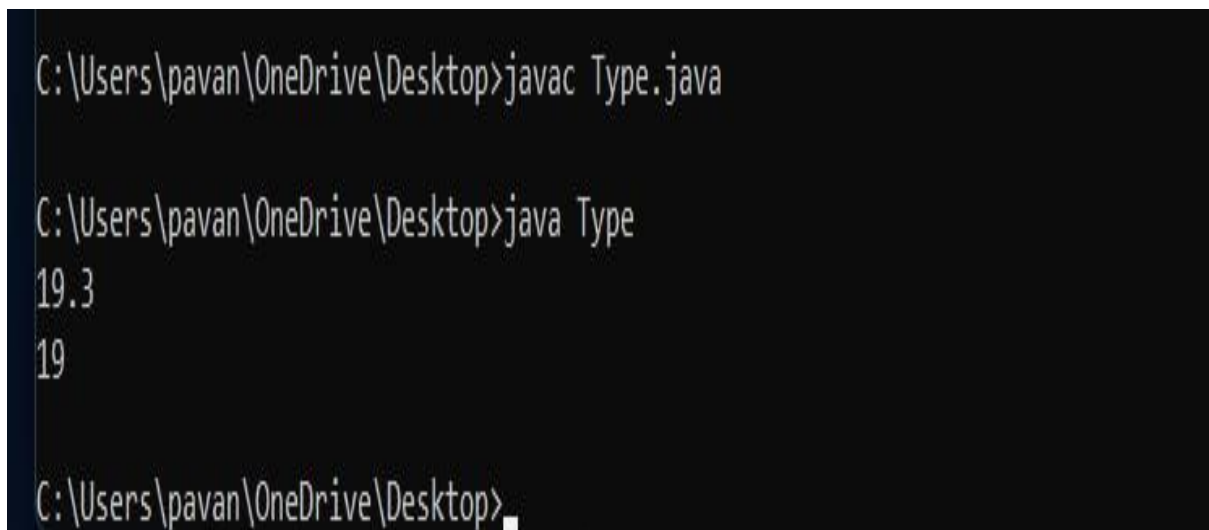
C:\Users\pavan\OneDrive\Desktop>
```

Conclusion: It is possible
explicit conversion

program:



```
class Type
{
    public static void main(String[] args)
    {
        double b=19.30;
        int c;
        c=(int)b;
        System.out.println(b);
        System.out.println(c);
    }
}
```



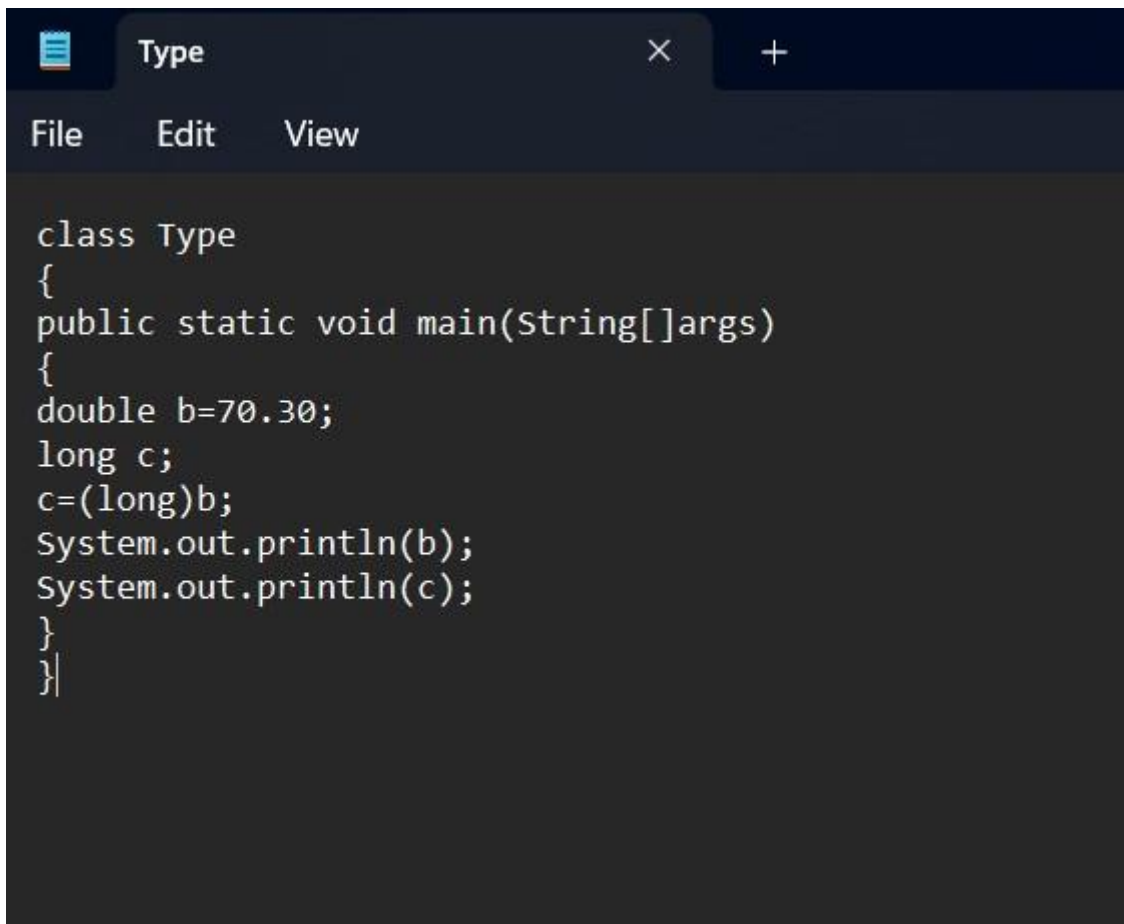
```
C:\Users\pavan\OneDrive\Desktop>javac Type.java

C:\Users\pavan\OneDrive\Desktop>java Type
19.3
19

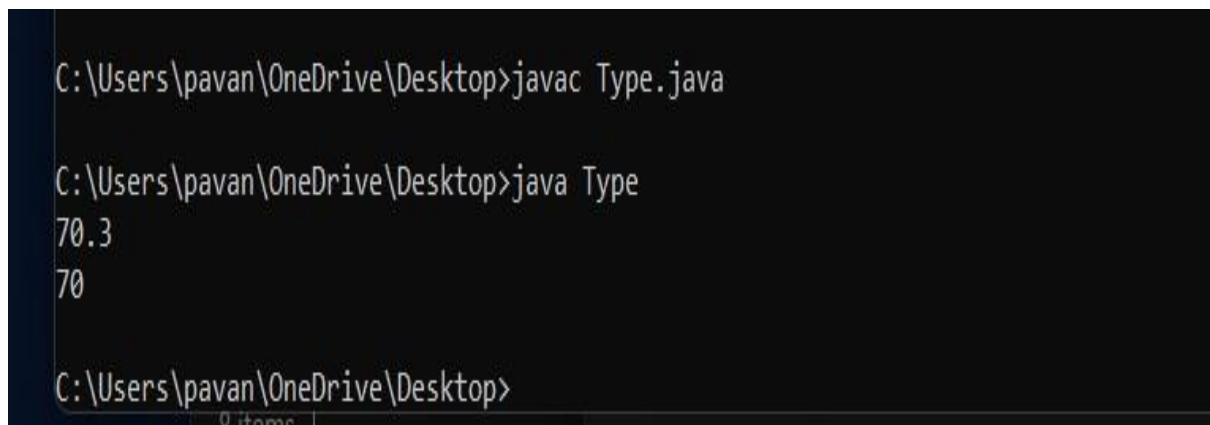
C:\Users\pavan\OneDrive\Desktop>
```

Conclusion: It is possible
explicit conversion

program:



```
class Type
{
    public static void main(String[] args)
    {
        double b=70.30;
        long c;
        c=(long)b;
        System.out.println(b);
        System.out.println(c);
    }
}
```



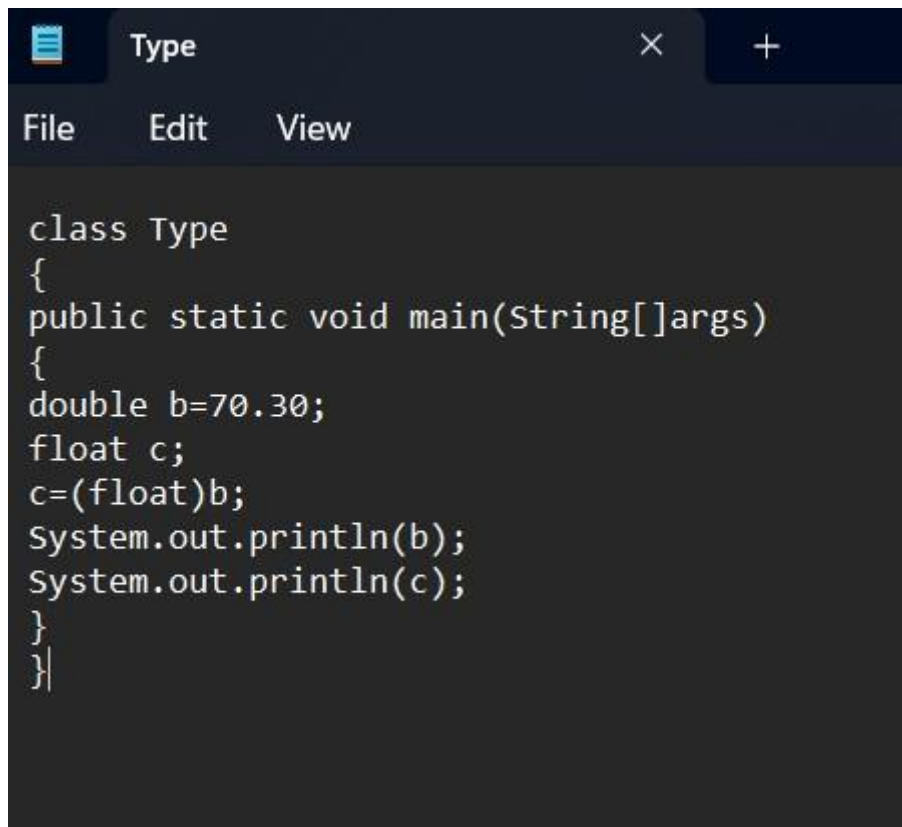
```
C:\Users\pavan\OneDrive\Desktop>javac Type.java

C:\Users\pavan\OneDrive\Desktop>java Type
70.3
70

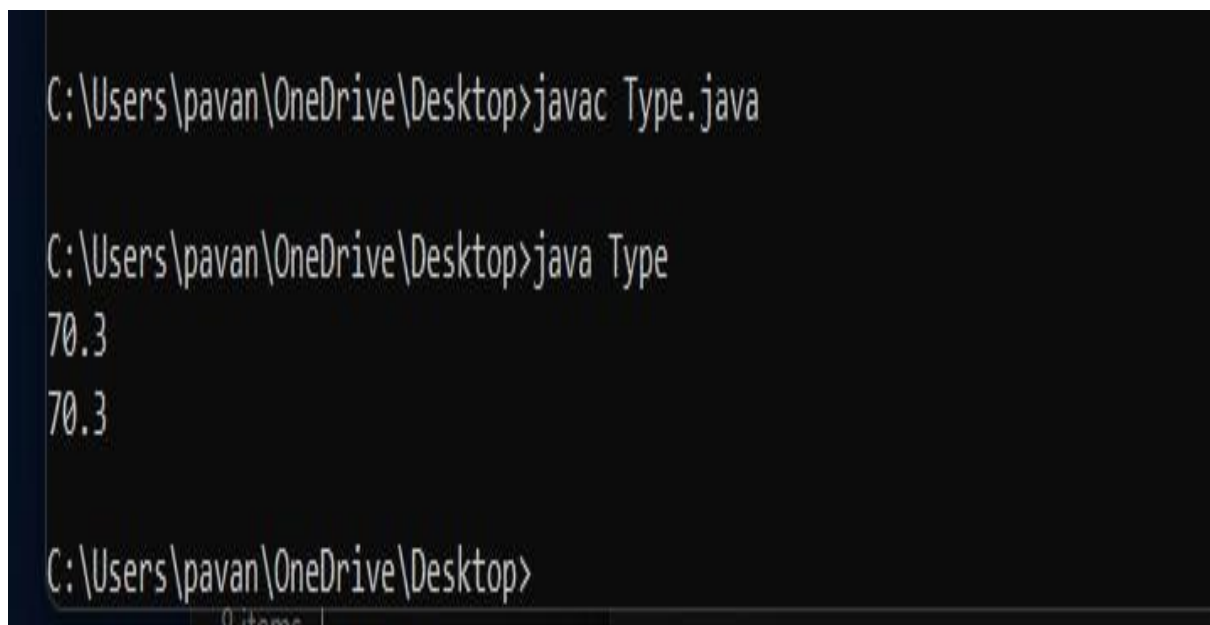
C:\Users\pavan\OneDrive\Desktop>
```

Conclusion: It is possible
explicit conversion

program:



```
class Type
{
    public static void main(String[] args)
    {
        double b=70.30;
        float c;
        c=(float)b;
        System.out.println(b);
        System.out.println(c);
    }
}
```



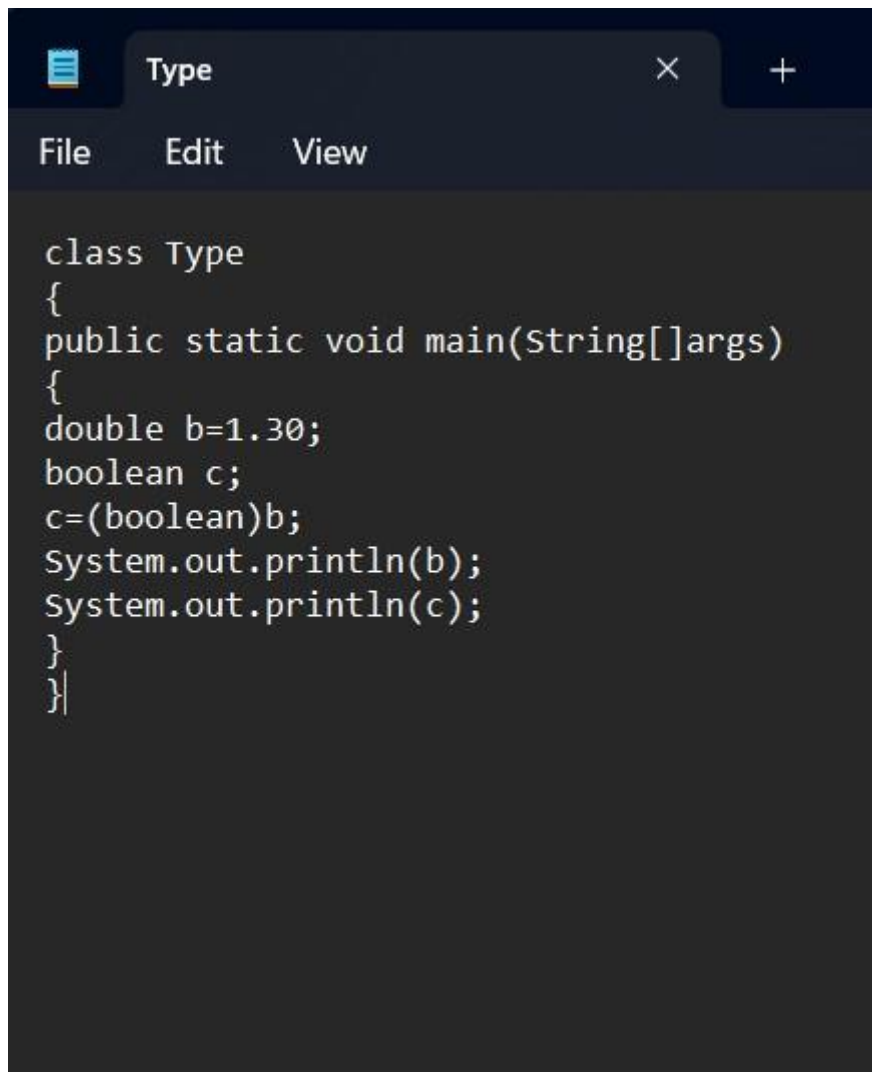
```
C:\Users\pavan\OneDrive\Desktop>javac Type.java

C:\Users\pavan\OneDrive\Desktop>java Type
70.3
70.3

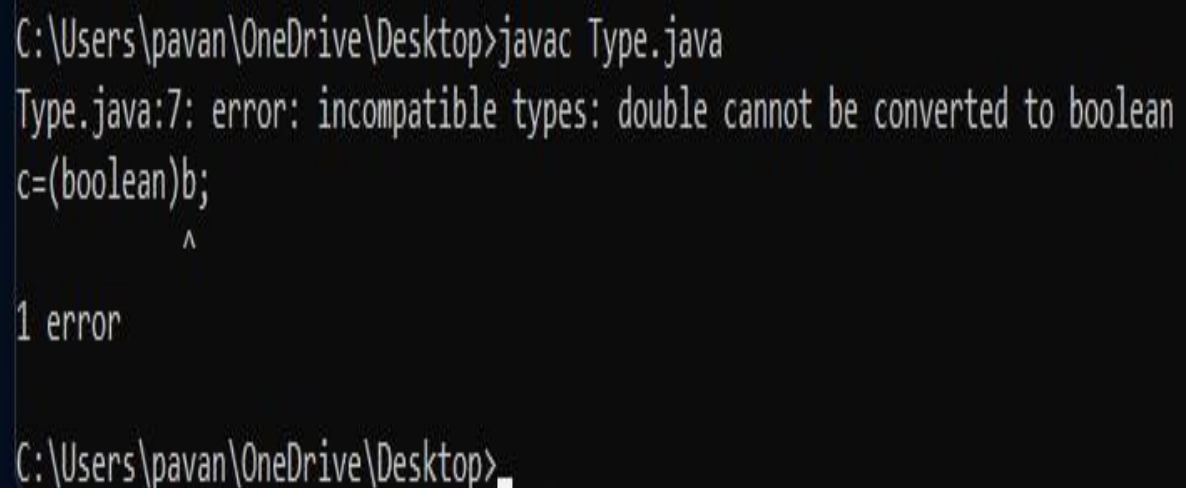
C:\Users\pavan\OneDrive\Desktop>
```

Conclusion: It is possible
explicit conversion

program:

A screenshot of a Java IDE window titled 'Type'. The window has a menu bar with 'File', 'Edit', and 'View'. The code editor contains the following Java code:

```
class Type
{
    public static void main(String[] args)
    {
        double b=1.30;
        boolean c;
        c=(boolean)b;
        System.out.println(b);
        System.out.println(c);
    }
}
```

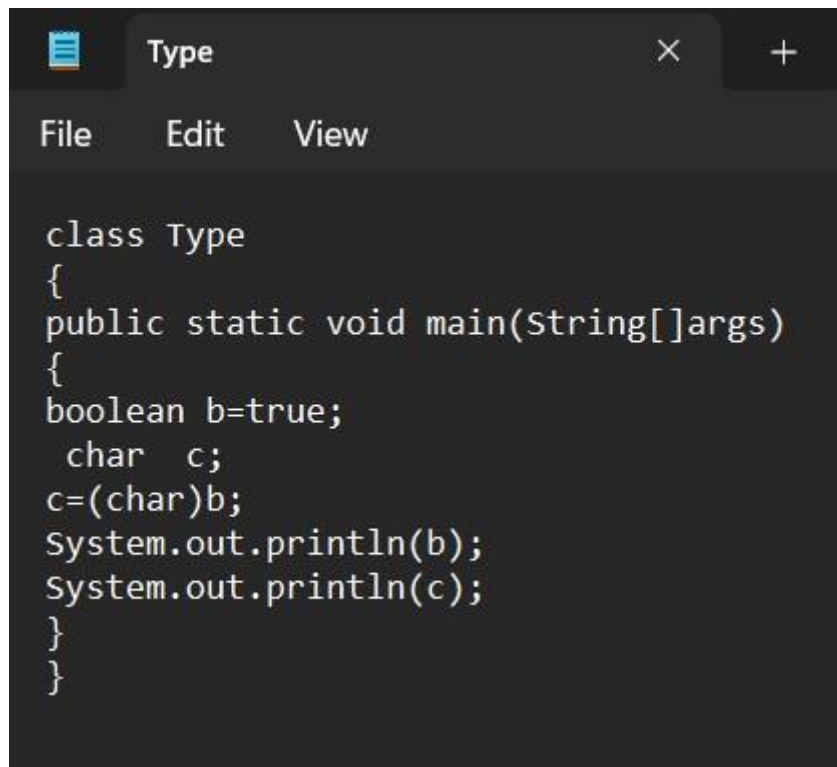
A screenshot of a Windows command prompt showing the compilation of the 'Type.java' file. The command 'javac Type.java' is entered, followed by an error message: 'Type.java:7: error: incompatible types: double cannot be converted to boolean'. The error points to the line 'c=(boolean)b;'. Below the error message, it says '1 error'. The prompt ends with 'C:\Users\pavan\OneDrive\Desktop>'.

```
C:\Users\pavan\OneDrive\Desktop>javac Type.java
Type.java:7: error: incompatible types: double cannot be converted to boolean
c=(boolean)b;
    ^
1 error

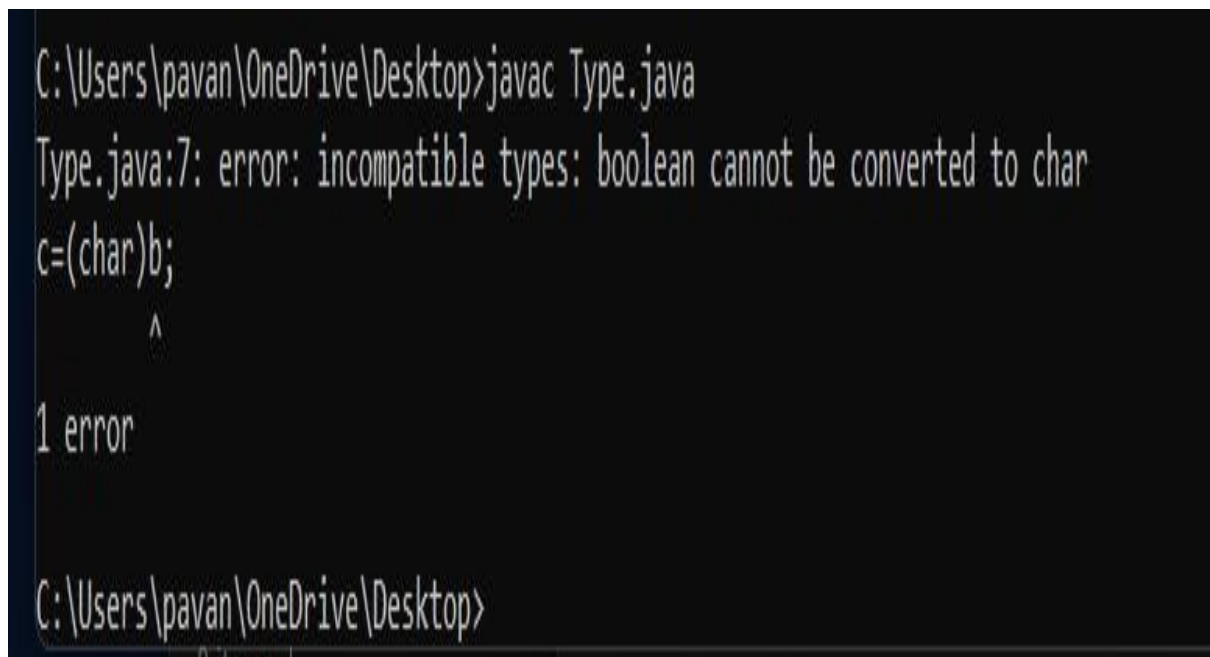
C:\Users\pavan\OneDrive\Desktop>
```

Conclusion: It is not possible

Program:



```
class Type
{
    public static void main(String[] args)
    {
        boolean b=true;
        char c;
        c=(char)b;
        System.out.println(b);
        System.out.println(c);
    }
}
```

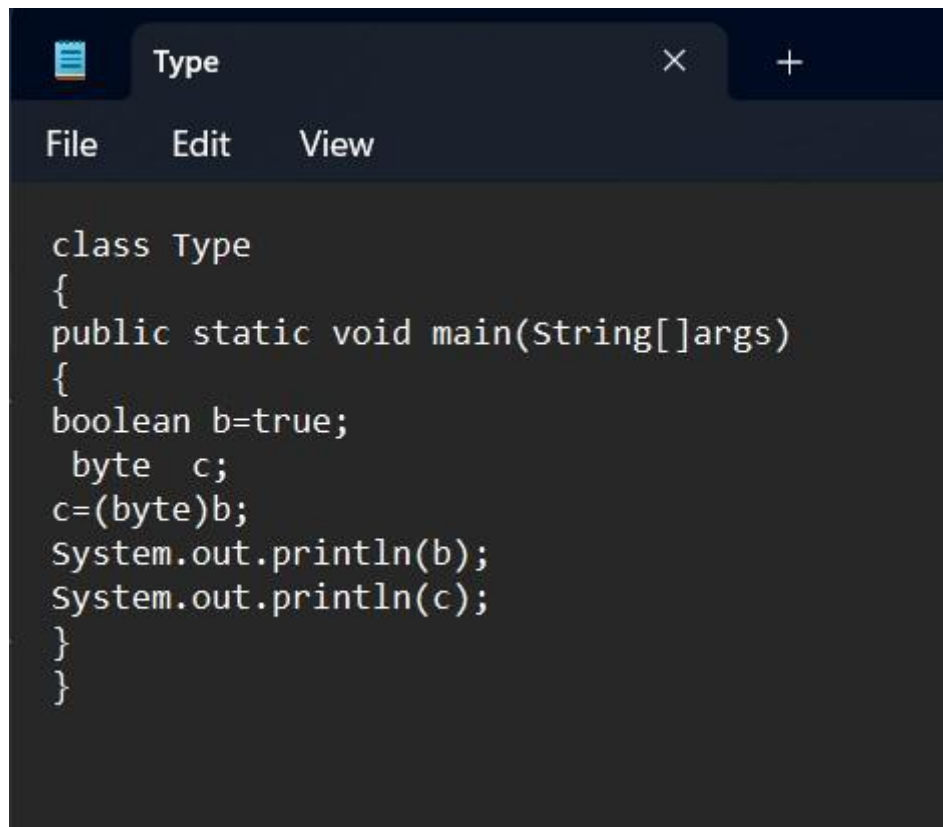


```
C:\Users\pavan\OneDrive\Desktop>javac Type.java
Type.java:7: error: incompatible types: boolean cannot be converted to char
    c=(char)b;
        ^
1 error

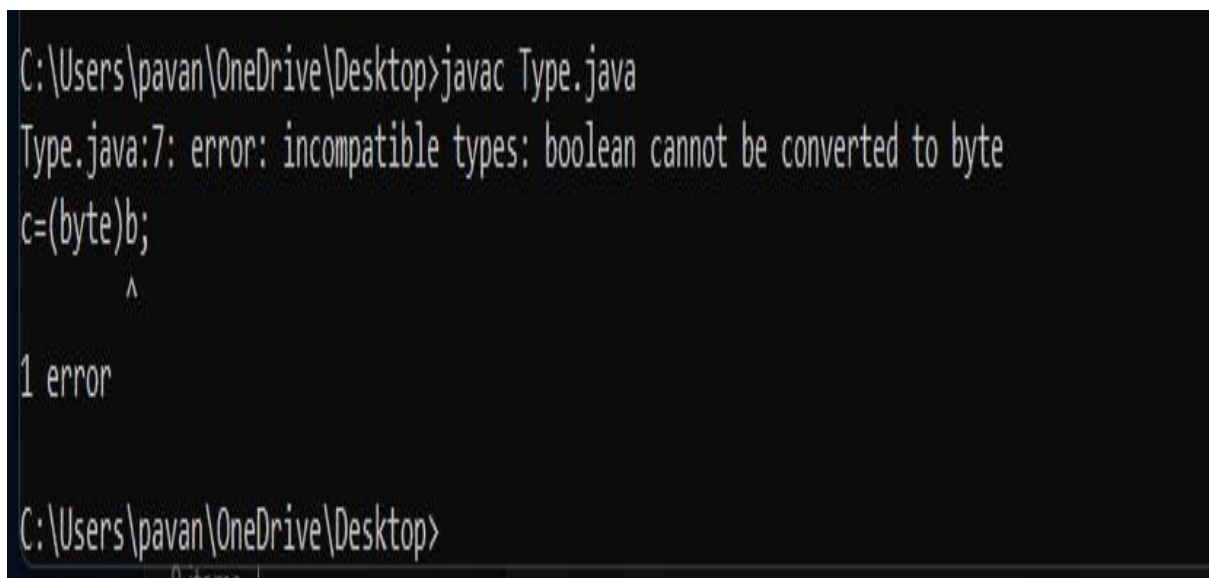
C:\Users\pavan\OneDrive\Desktop>
```

Conclusion: It is not possible

Program:



```
class Type
{
    public static void main(String[] args)
    {
        boolean b=true;
        byte c;
        c=(byte)b;
        System.out.println(b);
        System.out.println(c);
    }
}
```

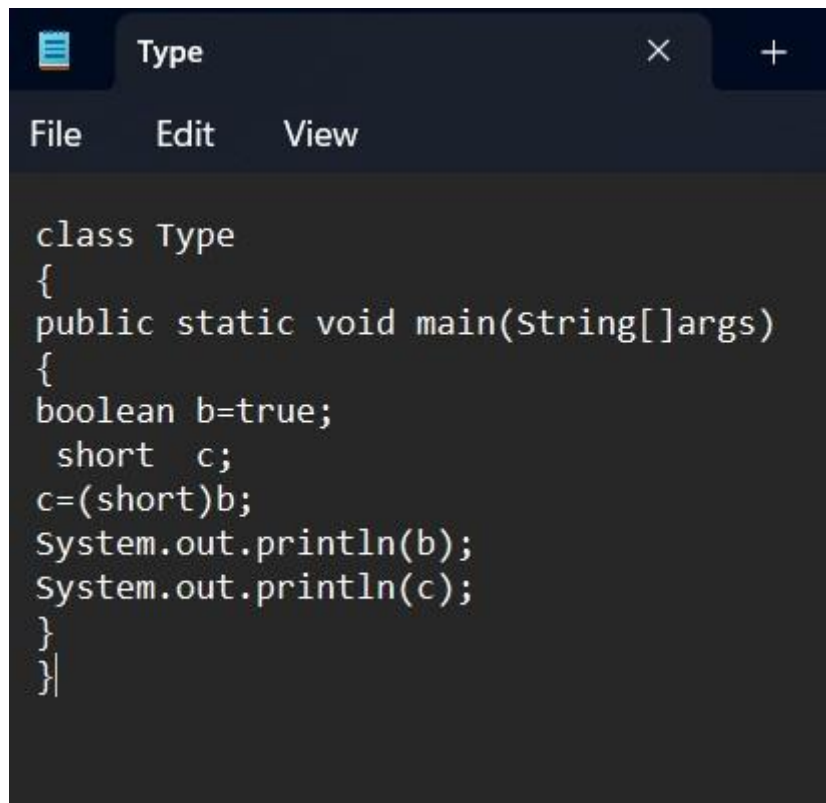


```
C:\Users\pavan\OneDrive\Desktop>javac Type.java
Type.java:7: error: incompatible types: boolean cannot be converted to byte
    c=(byte)b;
        ^
1 error

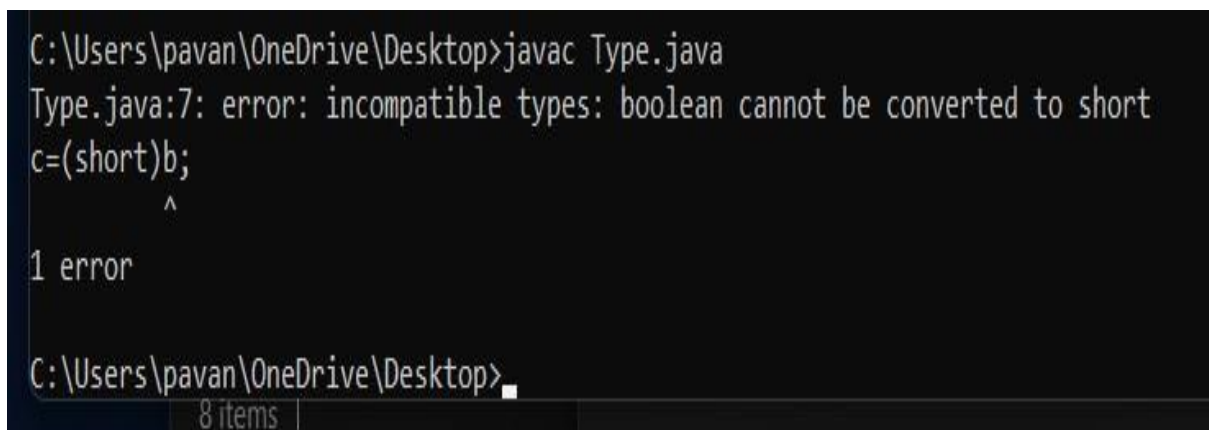
C:\Users\pavan\OneDrive\Desktop>
```

Conclusion: It is not possible

Program:



```
class Type
{
    public static void main(String[] args)
    {
        boolean b=true;
        short c;
        c=(short)b;
        System.out.println(b);
        System.out.println(c);
    }
}
```

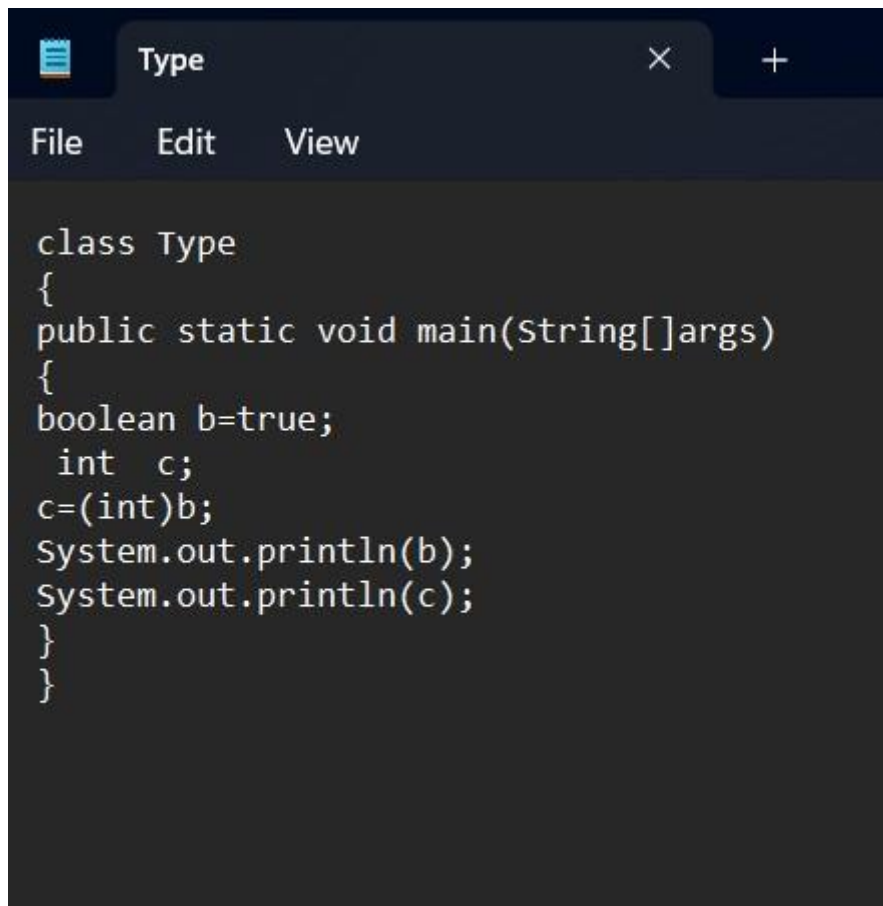


```
C:\Users\pavan\OneDrive\Desktop>javac Type.java
Type.java:7: error: incompatible types: boolean cannot be converted to short
c=(short)b;
      ^
1 error

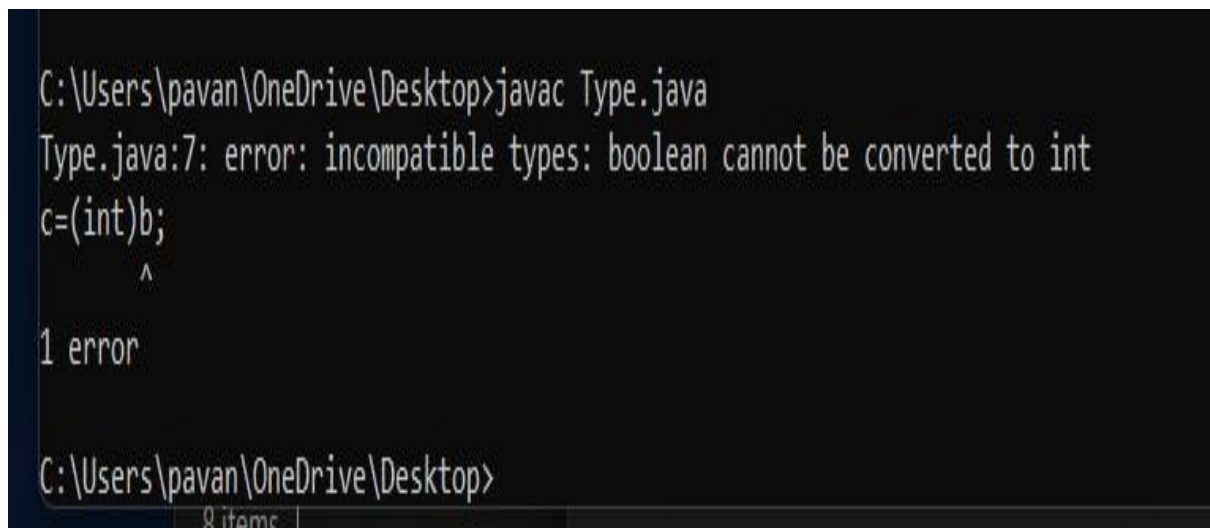
C:\Users\pavan\OneDrive\Desktop>
```

Conclusion: It is not possible

Program:



```
class Type
{
    public static void main(String[] args)
    {
        boolean b=true;
        int c;
        c=(int)b;
        System.out.println(b);
        System.out.println(c);
    }
}
```

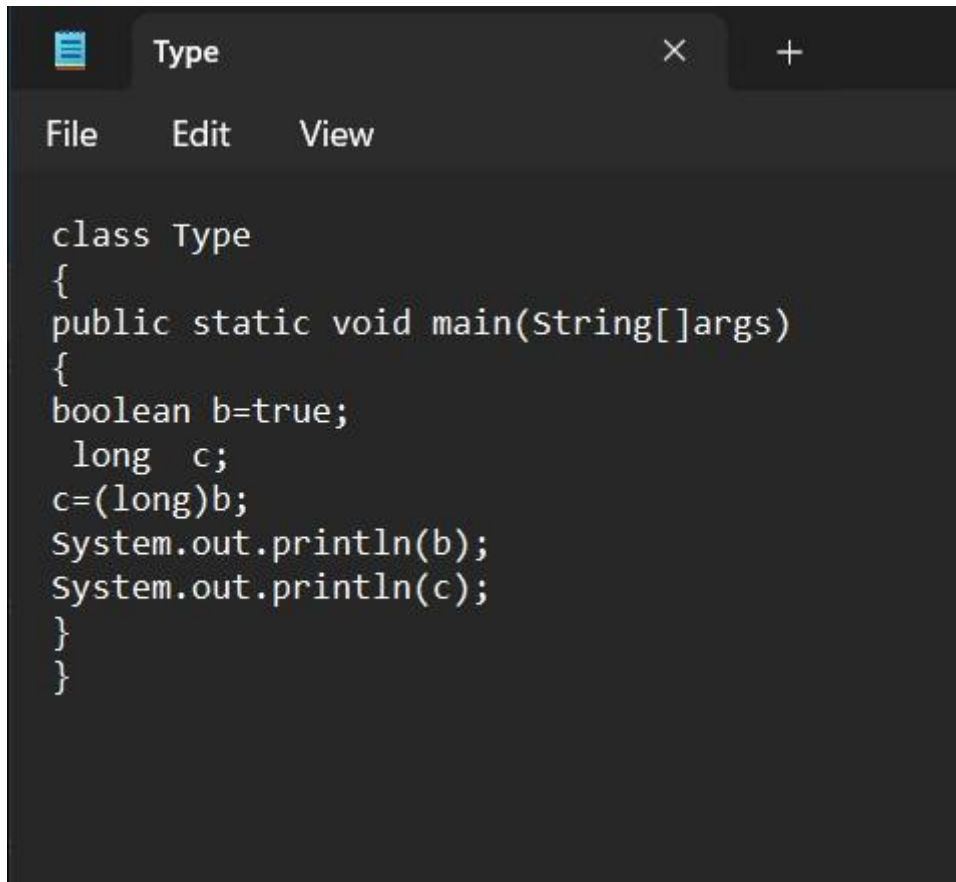


```
C:\Users\pavan\OneDrive\Desktop>javac Type.java
Type.java:7: error: incompatible types: boolean cannot be converted to int
    c=(int)b;
        ^
1 error

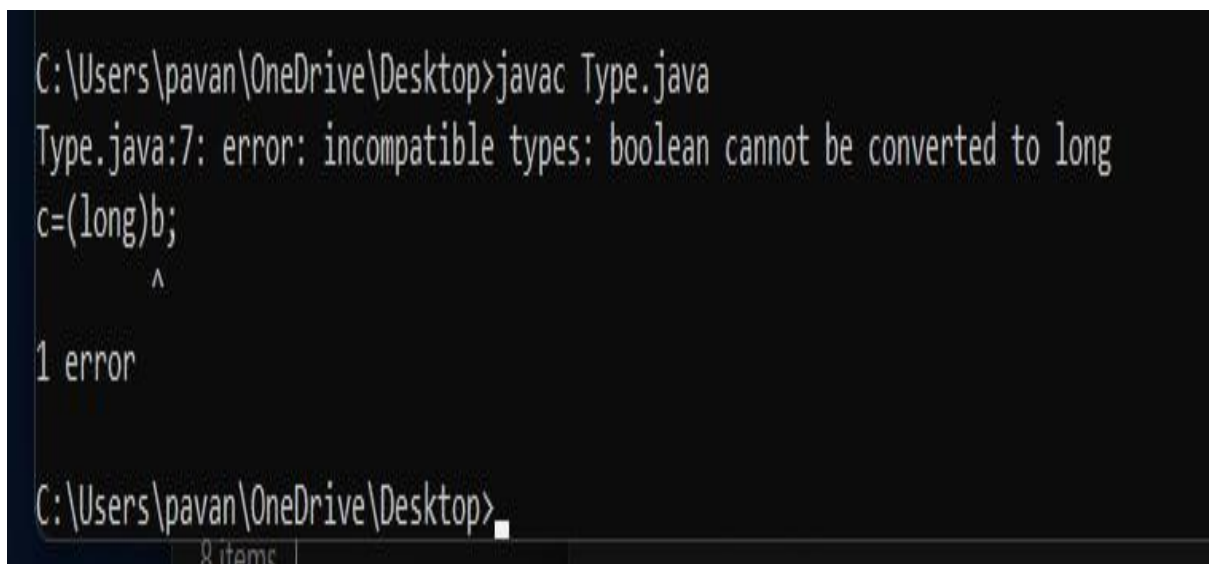
C:\Users\pavan\OneDrive\Desktop>
```

Conclusion: It is not possible

Program:



```
class Type
{
    public static void main(String[] args)
    {
        boolean b=true;
        long c;
        c=(long)b;
        System.out.println(b);
        System.out.println(c);
    }
}
```

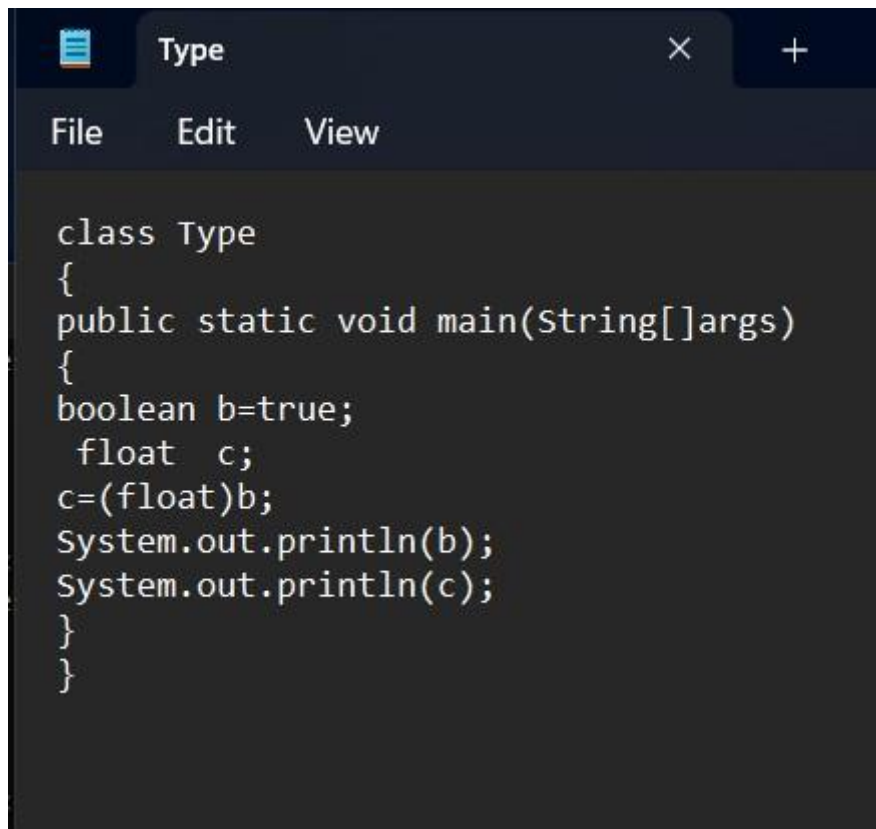


```
C:\Users\pavan\OneDrive\Desktop>javac Type.java
Type.java:7: error: incompatible types: boolean cannot be converted to long
    c=(long)b;
        ^
1 error

C:\Users\pavan\OneDrive\Desktop>
```

Conclusion: It is not possible

Program:



```
class Type
{
    public static void main(String[] args)
    {
        boolean b=true;
        float c;
        c=(float)b;
        System.out.println(b);
        System.out.println(c);
    }
}
```

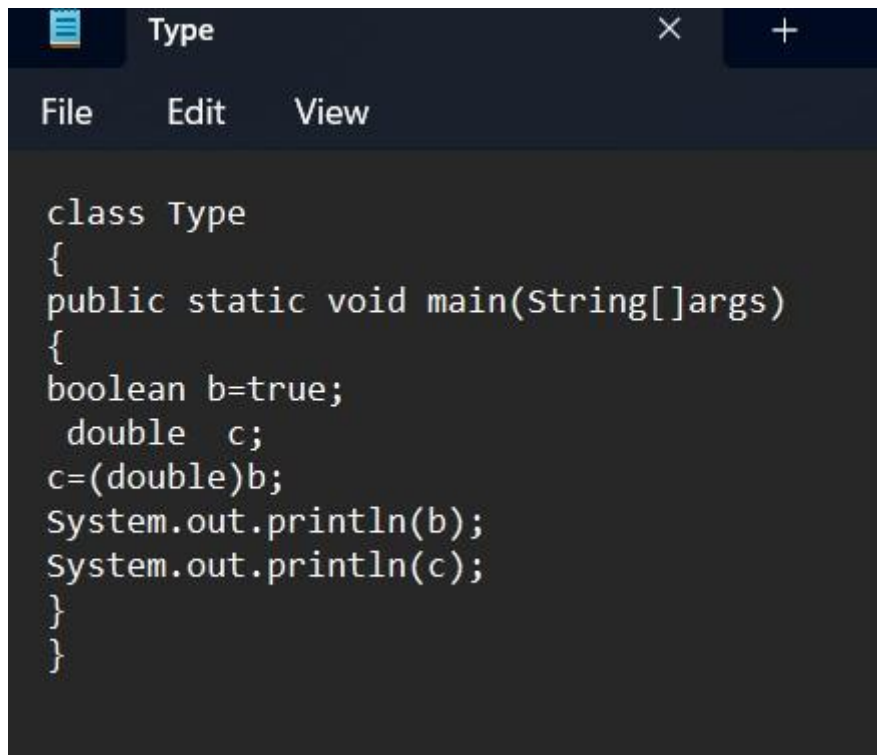


```
C:\Users\pavan\OneDrive\Desktop>javac Type.java
Type.java:7: error: incompatible types: boolean cannot be converted to float
    c=(float)b;
           ^
1 error

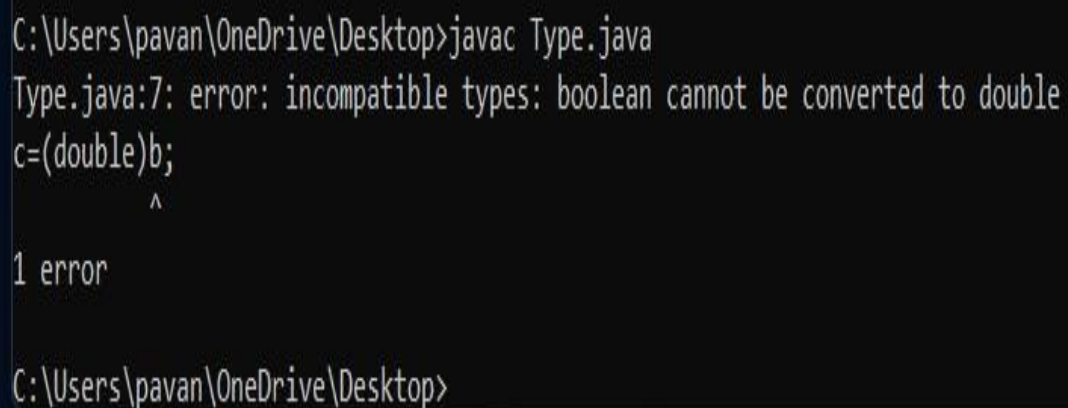
C:\Users\pavan\OneDrive\Desktop>
```

Conclusion: It is not possible

Program:



```
class Type
{
    public static void main(String[]args)
    {
        boolean b=true;
        double c;
        c=(double)b;
        System.out.println(b);
        System.out.println(c);
    }
}
```



```
C:\Users\pavan\OneDrive\Desktop>javac Type.java
Type.java:7: error: incompatible types: boolean cannot be converted to double
c=(double)b;
    ^
1 error

C:\Users\pavan\OneDrive\Desktop>
```

Conclusion: It is not possible

[illegible]