

Name: Vidya A Murteli
Email: vidyamurteli123@gmail.com
Mobile No: +917899768133

Summary:

To continuously enhance my knowledge, skills and experience to the best of my ability by getting involved in challenging work environment.

Academic Details:

Graduation	Year of Passing	Institute	University	% or GPA
Bachelor of Engineering (ISE)	2023	Basaveshwar Engineering College Bagalkote	Vishvesvaraya Technological University	8.5
Intermediate (12th)	2019	Thungala Science Composite PU College ,Jamakhandi	Pre University Education	84
SSLC	2017	Thungala English Medium High School Jamakhandi	Karnataka Secondary Education Examination Board	92.96

Technical Skills:

- Programming: C, Core Java, Python(Basics)
- Data Structures and Algorithms
- Database Management System and SQL
- HTML and CSS
- Operating System, Computer Networks

Internships and Certificates:

- Internship on Web Development at IStop
- Internship on Full stack web development at Eyesec Cyber Security Solutions Pvt. Ltd. Belagavi
- Participation certificate in “GGSY” organized globally by IIT Bombay
- Participation certificate in technical event “TECHNOPHILIA”

Project:

Hostel Mess-Management System (Mini project): A web portal that helps students to view their monthly mess fees and admin can enter daily attendance of students. It also provides various functionalities like calculating monthly mess fees of each student, providing and viewing the feedback.

Vehicle Safety and Alert System (Major Project): The system will try to avoid the accidents using sensors. If accident is unavoidable, then the system will detect the accident location and notifies to emergency services using GPS module. The system will rescue the victim of accident.

Personal Details:

Date of Birth: 07/03/2001
Languages known: Kannada, English, Hindi
Permanent Address: Vidya Nagar , Rabakavi, Dist: Bagalkote – 587314

Declaration:

I hereby declare that the information that I have furnished is legitimate to the best of my knowledge and ability.

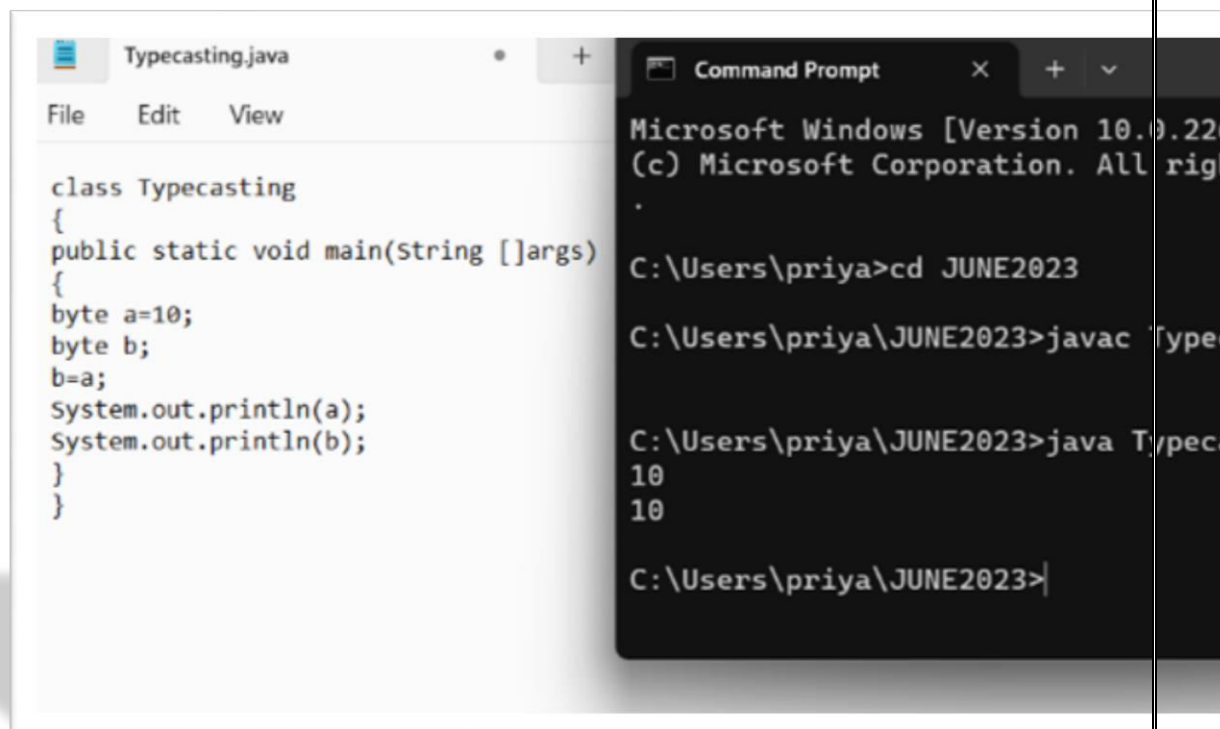
Vidya A Murteli

BYTE TO BYTE: -

PROGRAM:

```
class Typecasting
{
public static void main(String []args)
{
byte a=10;
byte b;
b=a;
System.out.println(a);
System.out.println(b);
}
}
```

OUTPUT:



The screenshot displays a Java IDE window titled 'Typecasting.java' and a Windows Command Prompt window. The IDE window shows the following code:

```
class Typecasting
{
public static void main(String []args)
{
byte a=10;
byte b;
b=a;
System.out.println(a);
System.out.println(b);
}
}
```

The Command Prompt window shows the following commands and output:

```
Microsoft Windows [Version 10.0.22H2]
(c) Microsoft Corporation. All rights reserved.

C:\Users\priya>cd JUNE2023

C:\Users\priya\JUNE2023>javac Typecasting.java

C:\Users\priya\JUNE2023>java Typecasting
10
10

C:\Users\priya\JUNE2023>
```

1a) BYTE TO BYTE TYPECASTING

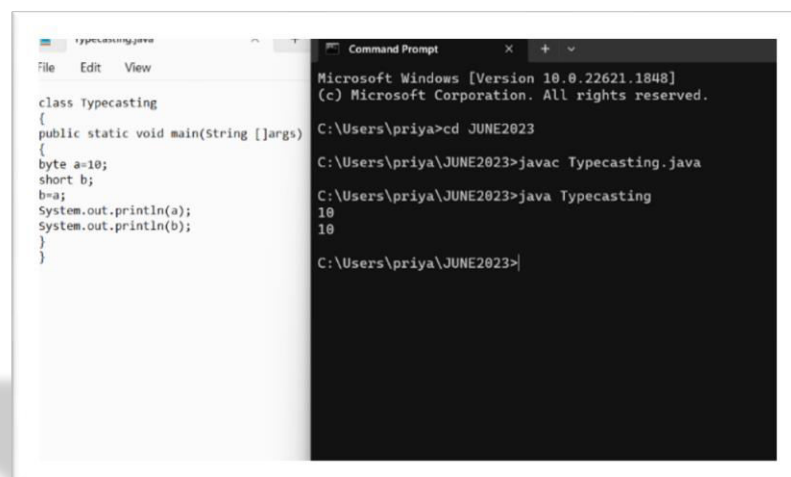
There is no need to do typecast or conversion from the same datatype to same datatype. It will results into same value or no change in result.

BYTE TO SHORT: -

PROGRAM:

```
class Typecasting
{
public static void main(String []args)
{
byte a=10;
short b;
System.out.println(a);
System.out.println(b);
}
}
```

OUTPUT:



The screenshot displays a Java IDE window on the left and a Windows Command Prompt on the right. The IDE window, titled 'Typecasting.java', shows the following code:

```
class Typecasting
{
public static void main(String []args)
{
byte a=10;
short b;
System.out.println(a);
System.out.println(b);
}
}
```

The Command Prompt window shows the execution steps and output:

```
Microsoft Windows [Version 10.0.22621.1848]
(c) Microsoft Corporation. All rights reserved.

C:\Users\priya>cd JUNE2023
C:\Users\priya\JUNE2023>javac Typecasting.java
C:\Users\priya\JUNE2023>java Typecasting
10
10
C:\Users\priya\JUNE2023>
```

1B) BYTE TO SHORT TYPECASTING

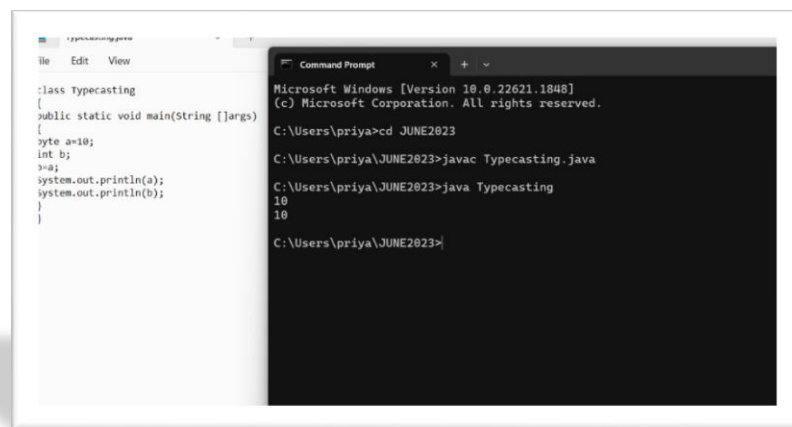
Typecasting is possible. Typecasting from “**byte**” to “**short**” is an “**Explicit typecasting**”.

BYTE TO INT: -

PROGRAM:

```
class Typecasting
{
public static void main(String []args)
{
byte a=10;
int b;
b=a;
System.out.println(a);
System.out.println(b);
}
}
```

OUTPUT:

The image shows a screenshot of a Java IDE window on the left and a Windows Command Prompt on the right. The IDE window, titled 'Typecasting.java', contains the following code:

```
class Typecasting
{
public static void main(String []args)
{
byte a=10;
int b;
b=a;
system.out.println(a);
system.out.println(b);
}
}
```

The Command Prompt window shows the execution steps:

```
Microsoft Windows [Version 10.0.22621.1848]
(c) Microsoft Corporation. All rights reserved.

C:\Users\priya>cd JUNE2023

C:\Users\priya\JUNE2023>javac Typecasting.java

C:\Users\priya\JUNE2023>java Typecasting
10
10

C:\Users\priya\JUNE2023>
```

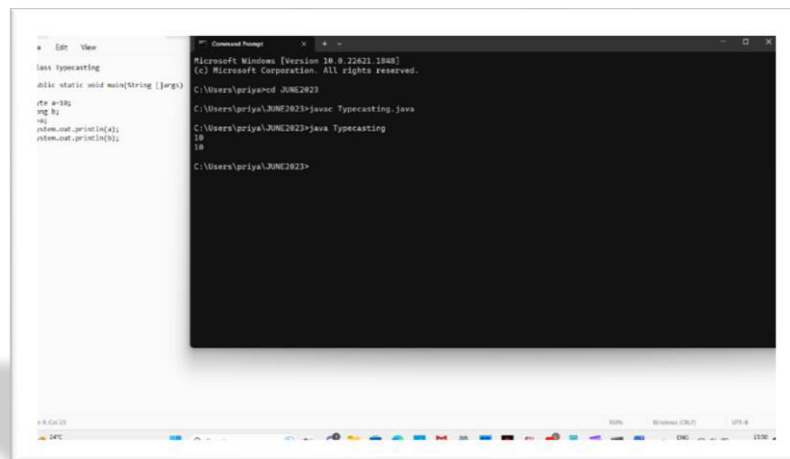
1C)BYTE TO INT TYPECASTING OUTPUT

BYTE TO LONG:

PROGRAM:

```
class Typecasting
{
public static void main(String []args)
{
byte a=10;
long b;
b=a;
System.out.println(a);
System.out.println(b);
}
}
```

Output:

A screenshot of a Java IDE with two windows. The left window, titled 'Typecasting.java', shows the source code for the 'Typecasting' class. The right window, titled 'Console Output', shows the execution output. The code in the left window is:

```
class Typecasting
{
    public static void main(String []args)
    {
        byte a=10;
        long b;
        b=a;
        System.out.println(a);
        System.out.println(b);
    }
}
```

 The console output on the right shows the following sequence:

```
Microsoft Windows [Version 10.0.22621.1888]
(c) Microsoft Corporation. All rights reserved.

C:\Users\priya>cd JUNE2023
C:\Users\priya\JUNE2023>java Typecasting.java
C:\Users\priya\JUNE2023>java Typecasting
10
10
C:\Users\priya\JUNE2023>
```

 The IDE's status bar at the bottom indicates 'v9.0.0', '24°C', and '11:30'.

1D)BYTE TO LONG TYPECASTING

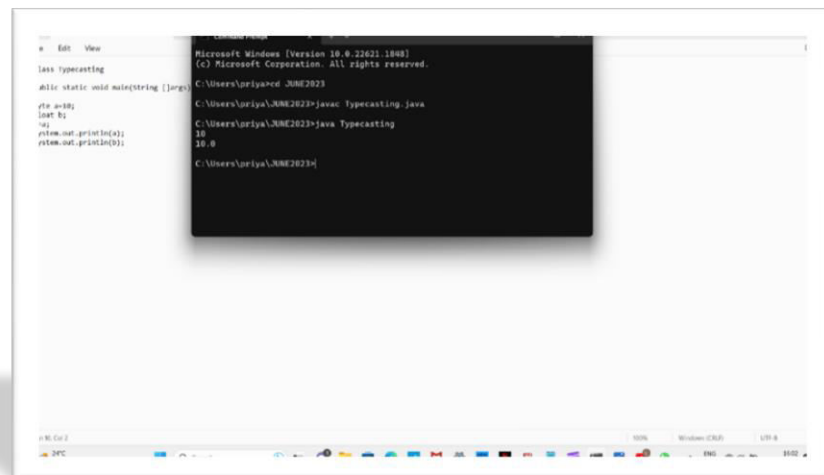
The typecasting is possible from byte to long datatype. The typecasting from “byte” to “long” is “Implicit typecasting”.

BYTE TO FLOAT:

PROGRAM:

```
class Typecasting
{
public static void main(String []args)
{
byte a=10;
float b;
b=a;
System.out.println(a);
System.out.println(b);
}
}
```

Output:



The screenshot shows a Windows command prompt window with the following text:

```
Microsoft Windows [Version 10.0.22621.1888]
(c) Microsoft Corporation. All rights reserved.

C:\Users\priya>cd C:\Users\priya\OneDrive\Documents
C:\Users\priya\OneDrive\Documents>javac Typecasting.java
C:\Users\priya\OneDrive\Documents>java Typecasting
10
10.0
C:\Users\priya\OneDrive\Documents>
```

The output of the program is displayed in the command prompt, showing the value 10 on the first line and 10.0 on the second line, which corresponds to the System.out.println(a) and System.out.println(b) statements in the code.

1E) BYTE TO FLOAT TYPECASTING

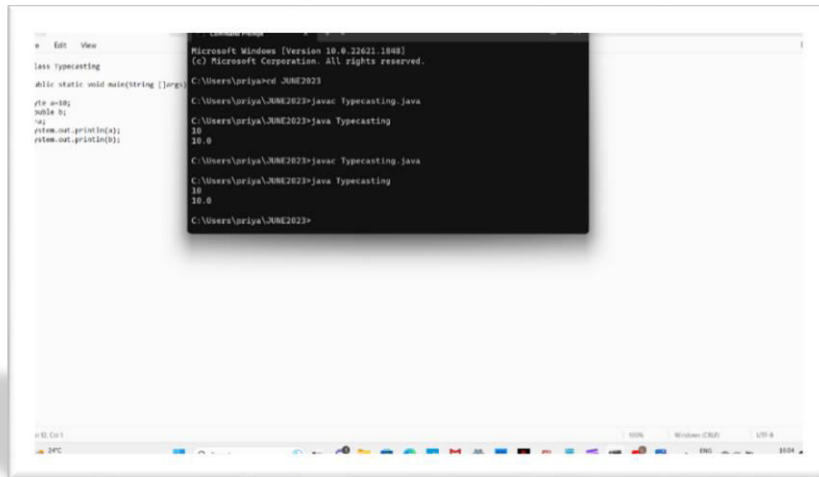
The Typecasting from byte to float is possible. The Typecasting from “byte” to “float” is an “Implicit Typecasting”

BYTE TO DOUBLE:

PROGRAM:

```
class Typecasting
{
public static void main(String []args)
{
byte a=10;
double b;
b=a;
System.out.println(a);
System.out.println(b);
}
}
```

OUTPUT:



1F) BYTE TO DOUBLE TYPECASTING

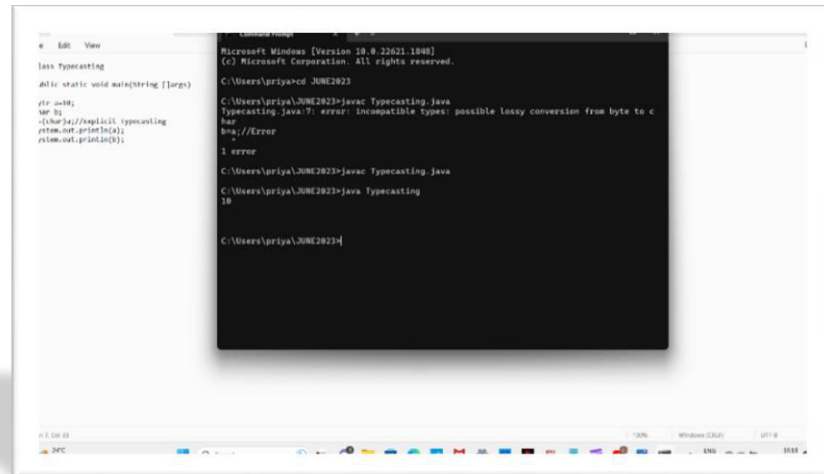
The typecasting from Byte to float is possible. The type of type conversion from “byte” to “double” is an “**Implicit typecasting**”.

BYTE TO CHAR:

PROGRAM:

```
class Typecasting
{
    public static void main(String []args)
    {
        byte a=10;
        char b;
        b=(char)a;
        System.out.println(a);
        System.out.println(b);
    }
}
```

Output:



1G) BYTE TO CHAR TYPECASTING

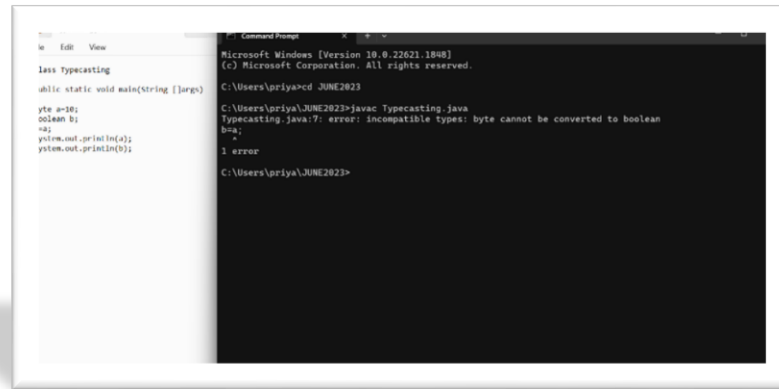
The typecasting from byte to char is possible. The type of typecasting from “byte” to “char” is an “Explicit Typecasting”.

BYTE TO BOOLEAN:

PROGRAM:

```
class Typecasting
{
    public static void main(String []args)
    {
        byte a=10;
        boolean b;
        b=a;
        System.out.println(a);
        System.out.println(b);
    }
}
```

OUTPUT:



1H) BYTE TO BOOLEAN TYPECASTING

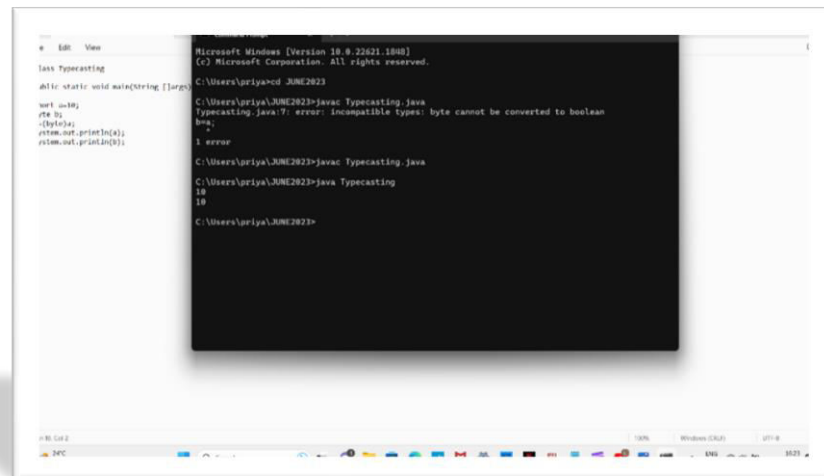
The typecasting from “byte” to “boolean” is not possible.

SHORT TO BYTE:

PROGRAM:

```
class Typecasting
{
    public static void main(String []args)
    {
        short a=32767;
        byte b;
        b=a;//Error
        b=(byte)a;//Explicit Typecasting
        System.out.println(a);
        System.out.println(b);
    }
}
```

Output:



```
Microsoft Windows [Version 10.0.22621.1888]
(c) Microsoft Corporation. All rights reserved.

C:\Users\priya>cd JUNE2023

C:\Users\priya\JUNE2023>javac Typecasting.java
Typecasting.java:7: error: incompatible types: byte cannot be converted to boolean
    b=a;
    ^
1 error

C:\Users\priya\JUNE2023>javac Typecasting.java

C:\Users\priya\JUNE2023>java Typecasting
10

C:\Users\priya\JUNE2023>
```

2A) SHORT TO BYTE TYPECASTING

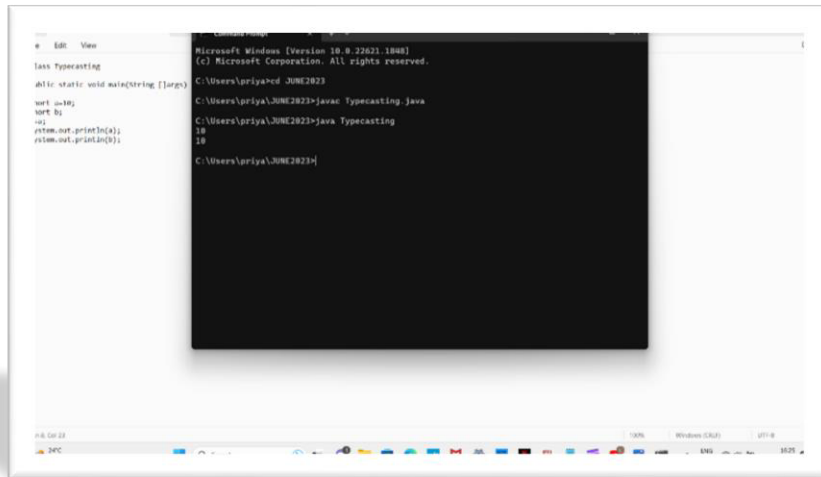
The typecasting from short to byte is possible. The type of typecasting from “short” to “byte” is “Explicit Typecasting”.

SHORT TO SHORT:

PROGRAM:

```
class Typecasting
{
    public static void main(String []args)
    {
        short a=32767;
        short b;
        b=a;
        System.out.println(a);
        System.out.println(b);
    }
}
```

Output:



2B) SHORT TO SHORT TYPECASTING

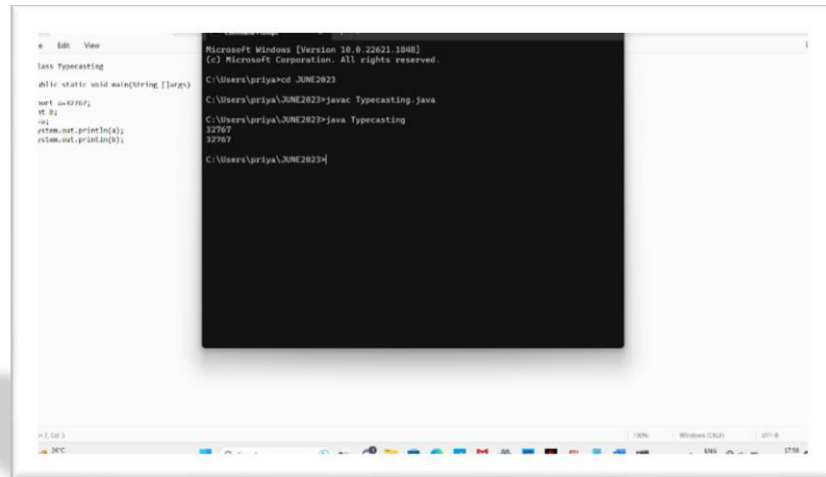
There is no change in conversion from “short” to “short” typecasting. It results into same result as in previous.

SHORT TO INT:

PROGRAM:

```
class Typecasting
{
    public static void main(String []args)
    {
        short a=32767;
        int b;
        b=a;
        System.out.println(a);
        System.out.println(b);
    }
}
```

Output:



2C) SHORT TO INT TYPECASTING

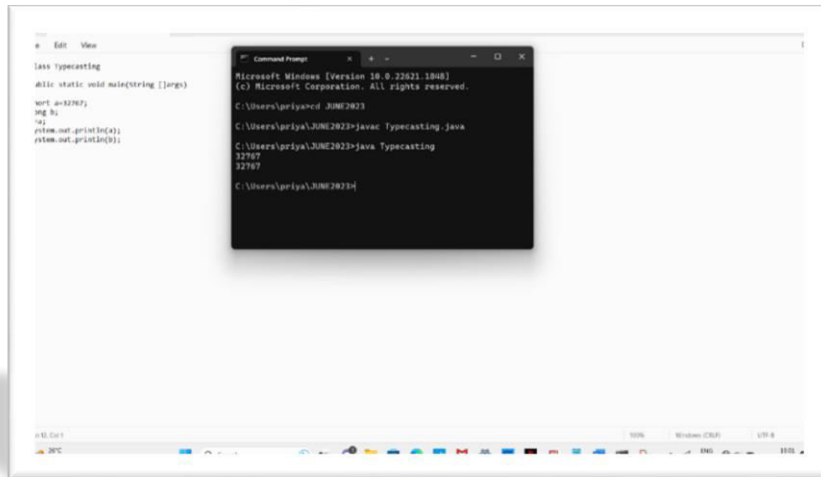
The typecasting from short to int is possible. The type of typecasting from “short” to “int” is “Implicit Typecasting”.

SHORT TO LONG:

PROGRAM:

```
class Typecasting
{
    public static void main(String []args)
    {
        short a=32767;
        long b;
        b=a;
        System.out.println(a);
        System.out.println(b);
    }
}
```

OUTPUT:



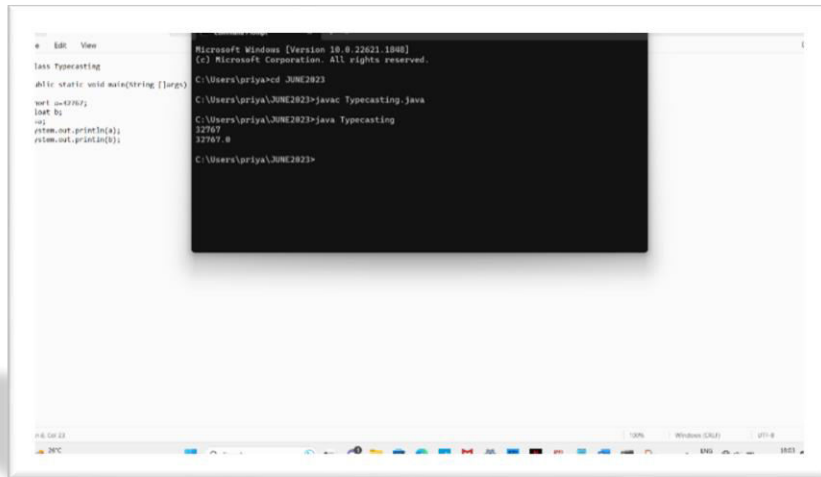
The

SHORT TO FLOAT:

PROGRAM:

```
class Typecasting
{
    public static void main(String []args)
    {
        short a=32767;
        float b;
        b=a;
        System.out.println(a);
        System.out.println(b);
    }
}
```

OUTPUT:



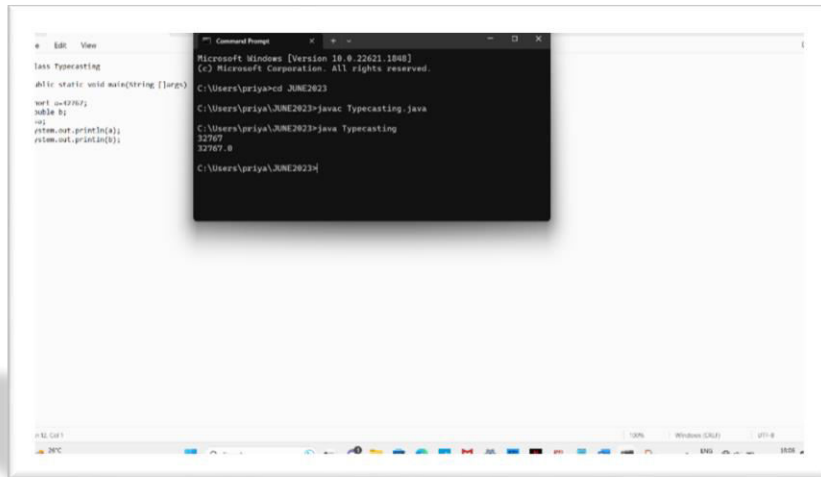
the

SHORT TO DOUBLE:

PROGRAM:

```
class Typecasting
{
    public static void main(String []args)
    {
        short a=32767;
        double b;
        b=a;
        System.out.println(a);
        System.out.println(b);
    }
}
```

Output:

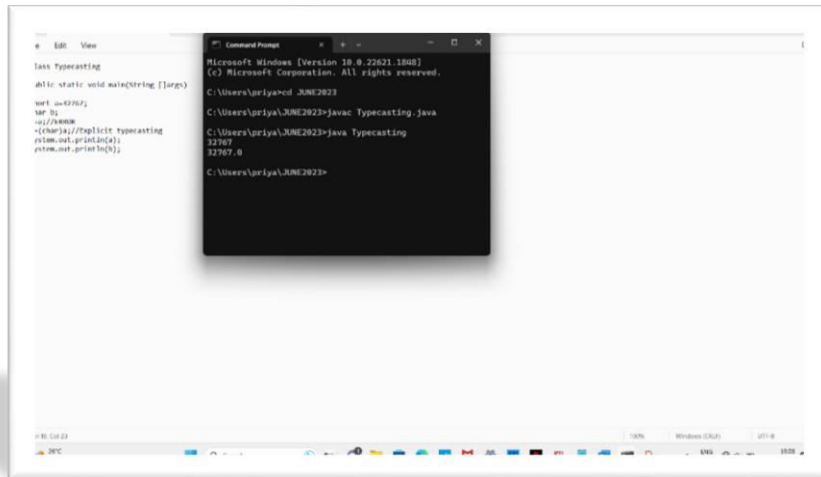


SHORT TO CHAR:

PROBLEM:

```
class Typecasting
{
    public static void main(String []args)
    {
        short a=32767;
        char b;
        b=a;//ERROR
        b=(char)a;//Explicit typecasting
        System.out.println(a);
        System.out.println(b);
    }
}
```


OUTPUT:



```
class Typecasting
{
    public static void main(String []args)
    {
        short a=32767;
        boolean b;
        b=a;
        System.out.println(a);
        System.out.println(b);
    }
}
```

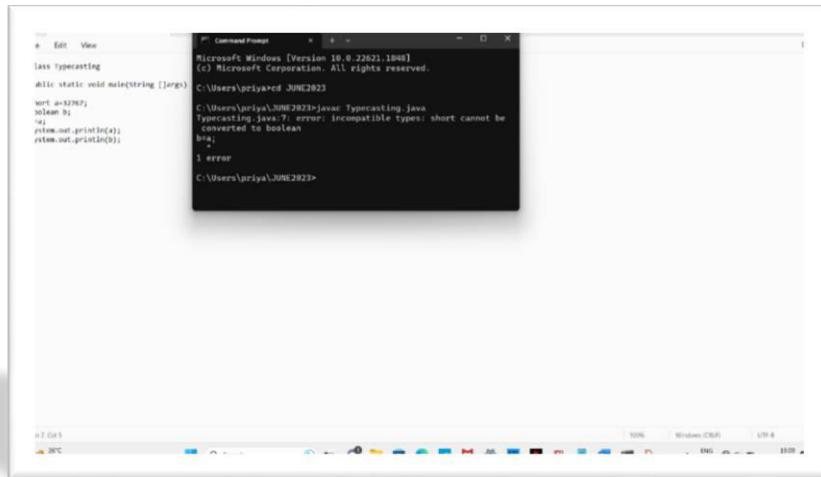
```
Microsoft Windows [Version 10.0.22621.1808]
(c) Microsoft Corporation. All rights reserved.
C:\Users\priya>cd JUNE2023
C:\Users\priya\JUNE2023>javac Typecasting.java
C:\Users\priya\JUNE2023>java Typecasting
32767
32767.0
C:\Users\priya\JUNE2023>
```

SHORT TO BOOLEAN:

PROGRAM:

```
class Typecasting
{
    public static void main(String []args)
    {
        short a=32767;
        boolean b;
        b=a;
        System.out.println(a);
        System.out.println(b);
    }
}
```

OUTPUT:

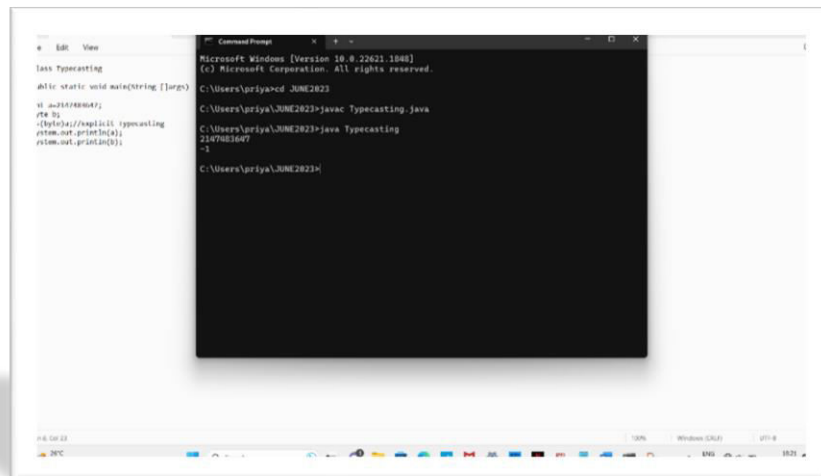


INT TO BYTE:

PROGRAM:

```
class Typecasting
{
    public static void main(String []args)
    {
        int a=2147483647;
        byte b;
        b=a;//Error
        b=(byte)a;//Explicit Typecasting
        System.out.println(a);
        System.out.println(b);
    }
}
```

Output:

A screenshot of a Windows IDE. The left pane shows a Java file named 'Typecasting.java' with the following code:

```
class Typecasting
{
    public static void main(String []args)
    {
        int a=2147483647;
        short b;
        b=(byte)a;//Explicit typecasting
        System.out.println(a);
        System.out.println(b);
    }
}
```

The right pane shows the output of the program in a black console window:

```
Microsoft Windows [Version 10.0.22621.1888]
(c) Microsoft Corporation. All rights reserved.

C:\Users\priya>cd .\JUNE2022

C:\Users\priya\JUNE2022>javac Typecasting.java

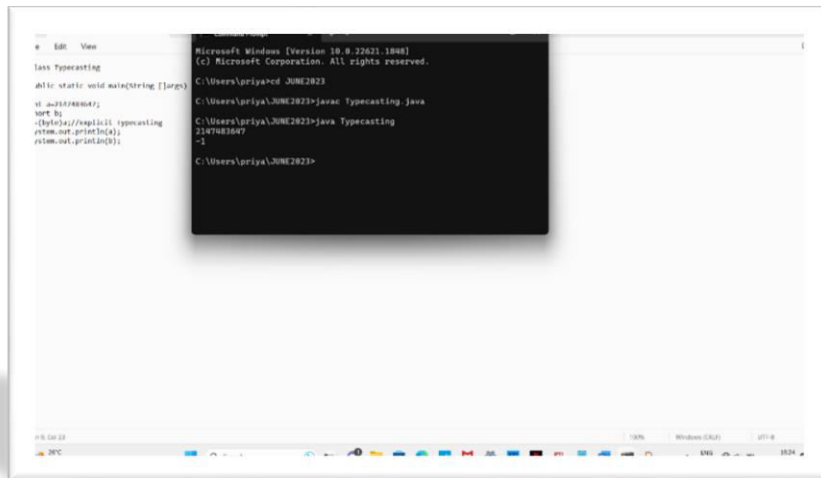
C:\Users\priya\JUNE2022>java Typecasting
2147483647
-1
```

INT TO SHORT:

PROGRAM:

```
class Typecasting
{
    public static void main(String []args)
    {
        int a=2147483647;
        short b;
        b=a;
        b=(byte)a;//Explicit Typecasting
        System.out.println(a);
        System.out.println(b);
    }
}
```

OUTPUT:

A screenshot of a Windows IDE. The background window shows a Java file named 'Typecasting.java' with the following code:

```
class Typecasting
{
    public static void main(String []args)
    {
        int a=2147483647;
        int b;
        b=a;
        System.out.println(a);
        System.out.println(b);
    }
}
```

The foreground window is a black console with white text showing the execution output:

```
Microsoft Windows [Version 10.0.22621.1888]
(c) Microsoft Corporation. All rights reserved.

C:\Users\priya>cd J0NC2023

C:\Users\priya\J0NC2023>javac Typecasting.java

C:\Users\priya\J0NC2023>java Typecasting
2147483647
-1

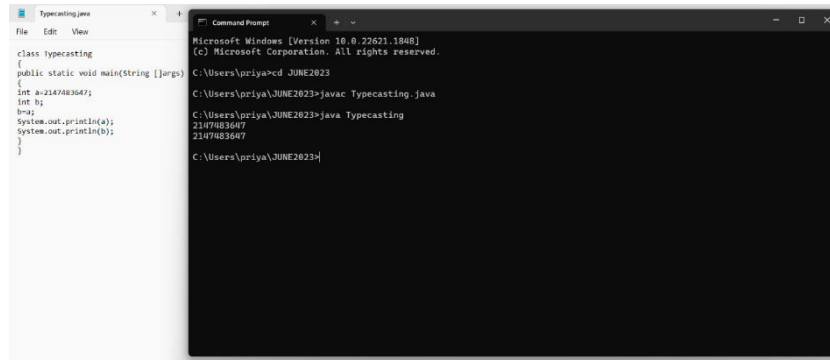
C:\Users\priya\J0NC2023>
```

INT TO INT:

PROGRAM:

```
class Typecasting
{
    public static void main(String []args)
    {
        int a=2147483647;
        int b;
        b=a;
        System.out.println(a);
        System.out.println(b);
    }
}
```

OUTPUT:

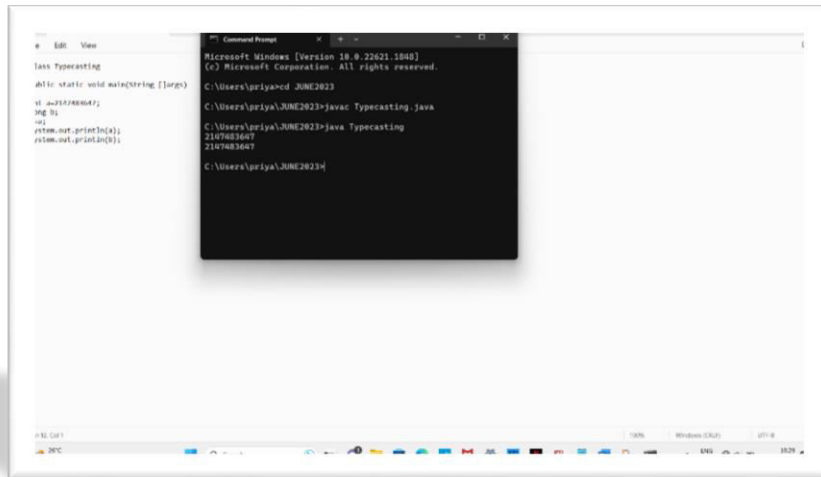


INT TO LONG:

PROGRAM:

```
class Typecasting
{
    public static void main(String []args)
    {
        int a=2147483647;
        long b;
        b=a;
        System.out.println(a);
        System.out.println(b);
    }
}
```

OUTPUT:

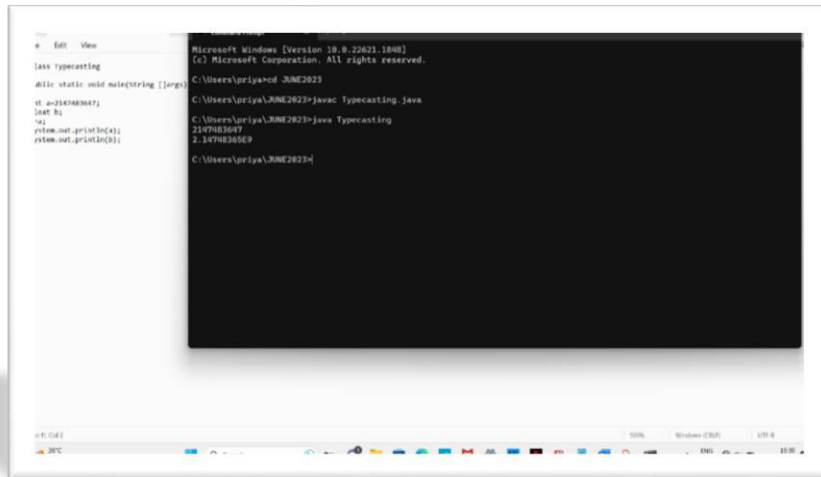


INT TO FLOAT:

PROGRAM:

```
class Typecasting
{
public static void main(String []args)
{
int a=2147483647;
float b;
b=a;
System.out.println(a);
System.out.println(b);
}
}
```

OUTPUT:

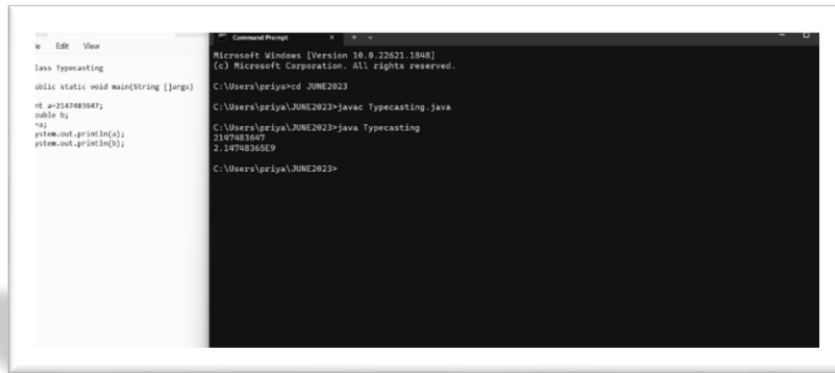


INT TO DOUBLE:

PROGRAM:

```
class Typecasting
{
    public static void main(String []args)
    {
        int a=2147483647;
        double b;
        b=a;
        System.out.println(a);
        System.out.println(b);
    }
}
```

OUTPUT:

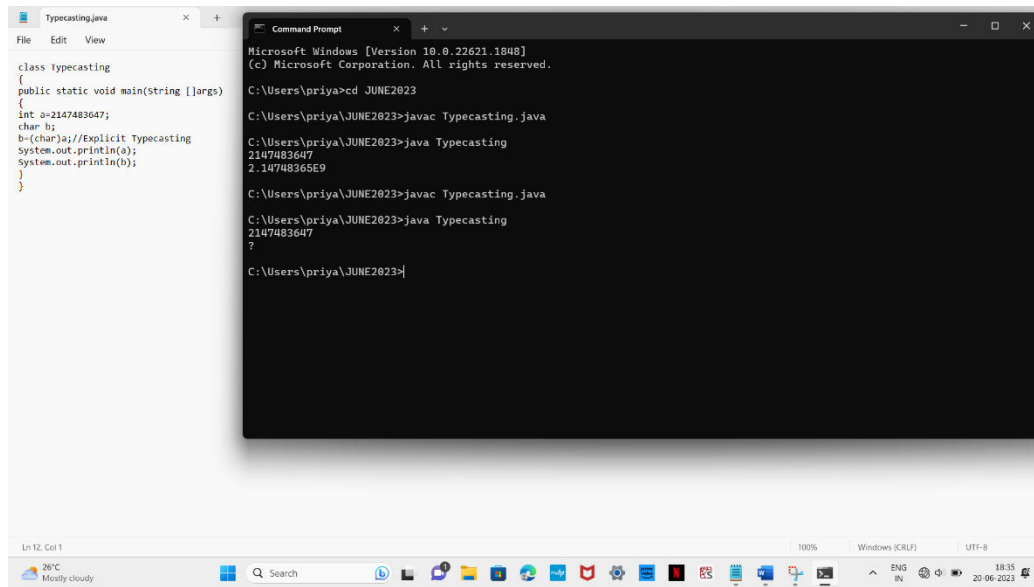


INT TO CHAR:

PROGRAM:

```
class Typecasting
{
    public static void main(String []args)
    {
        int a=2147483647;
        char b;
        b=a;\\ERROR
        b=(char)a;//Explicit Typecasting
        System.out.println(a);
        System.out.println(b);
    }
}
```


Output:



```
class Typecasting
{
    public static void main(String []args)
    {
        int a=2147483647;
        char b;
        b=(char)a;//Explicit Typecasting
        System.out.println(a);
        System.out.println(b);
    }
}

Microsoft Windows [Version 10.0.22621.1848]
(c) Microsoft Corporation. All rights reserved.

C:\Users\priya>cd JUNE2023

C:\Users\priya\JUNE2023>javac Typecasting.java

C:\Users\priya\JUNE2023>java Typecasting
2147483647
2.14748365E9

C:\Users\priya\JUNE2023>javac Typecasting.java

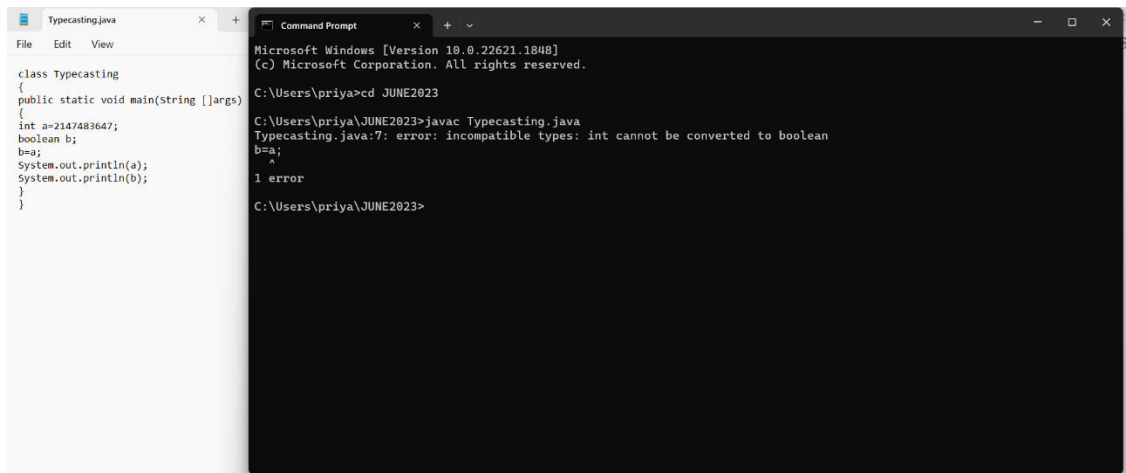
C:\Users\priya\JUNE2023>java Typecasting
2147483647
?
```

INT TO BOOLEAN:

PROGRAM:

```
class Typecasting
{
    public static void main(String []args)
    {
        int a=2147483647;
        boolean b;
        b=a;
        System.out.println(a);
        System.out.println(b);
    }
}
```

OUTPUT:

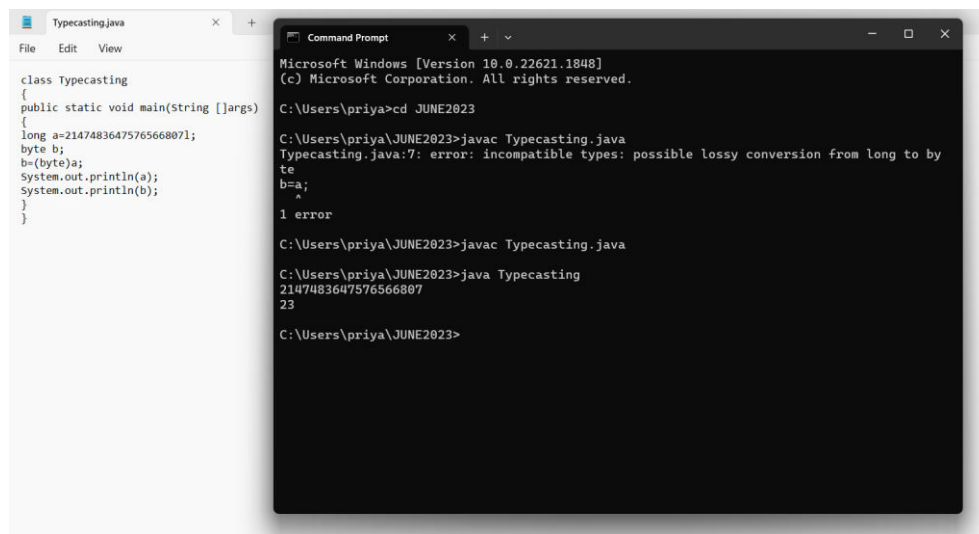


LONG TO BYTE:

PROGRAM:

```
class Typecasting
{
    public static void main(String []args)
    {
        long a=2147483647576566807l;
        byte b;
        b=a;//ERROR
        b=(byte)a;//Explicit Typecasting
        System.out.println(a);
        System.out.println(b);
    }
}
```

OUTPUT:



The screenshot shows a Java IDE window titled 'Typecasting.java' with the following code:

```
class Typecasting
{
    public static void main(String []args)
    {
        long a=21474836475765668071;
        byte b;
        b=(byte)a;
        System.out.println(a);
        System.out.println(b);
    }
}
```

Next to it is a Command Prompt window showing the compilation process:

```
Microsoft Windows [Version 10.0.22621.1848]
(c) Microsoft Corporation. All rights reserved.

C:\Users\priya>cd JUNE2023

C:\Users\priya\JUNE2023>javac Typecasting.java
Typecasting.java:7: error: incompatible types: possible lossy conversion from long to byte
    b=(byte)a;
        ^
1 error

C:\Users\priya\JUNE2023>javac Typecasting.java

C:\Users\priya\JUNE2023>java Typecasting
2147483647576566807
23

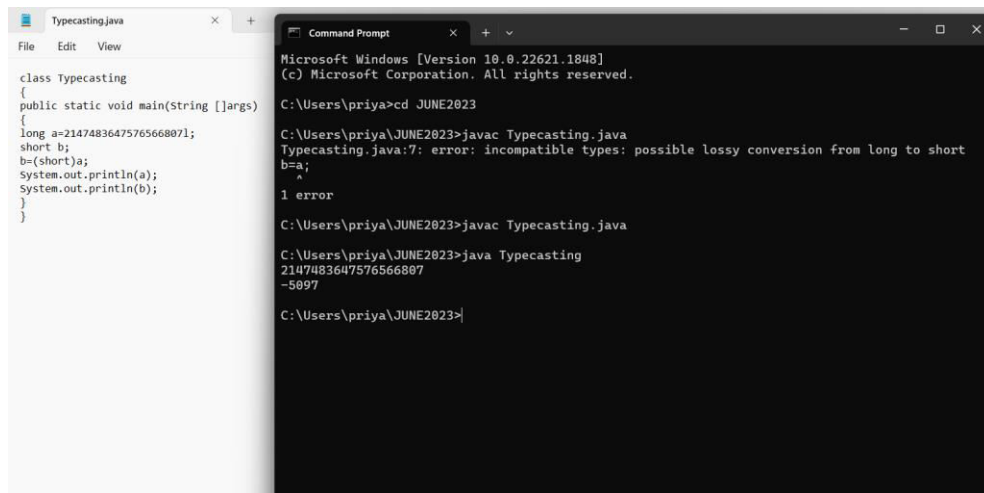
C:\Users\priya\JUNE2023>
```

LONG TO SHORT:

PROGRAM:

```
class Typecasting
{
    public static void main(String []args)
    {
        long a=21474836475765668071;
        short b;
        b=a;//ERROR
        b=(short)a;//Explicit Typecasting
        System.out.println(a);
        System.out.println(b);
    }
}
```

Output:



The screenshot shows a Java IDE window titled 'Typecasting.java' on the left and a Windows Command Prompt on the right. The IDE contains the following code:

```
class Typecasting
{
    public static void main(String []args)
    {
        long a=2147483647576566807L;
        short b;
        b=(short)a;
        System.out.println(a);
        System.out.println(b);
    }
}
```

The Command Prompt shows the following commands and output:

```
Microsoft Windows [Version 10.0.22621.1848]
(c) Microsoft Corporation. All rights reserved.

C:\Users\priya>cd JUNE2023

C:\Users\priya\JUNE2023>javac Typecasting.java
Typecasting.java:7: error: incompatible types: possible lossy conversion from long to short
    b=a;
    ^
1 error

C:\Users\priya\JUNE2023>javac Typecasting.java

C:\Users\priya\JUNE2023>java Typecasting
2147483647576566807
-5097

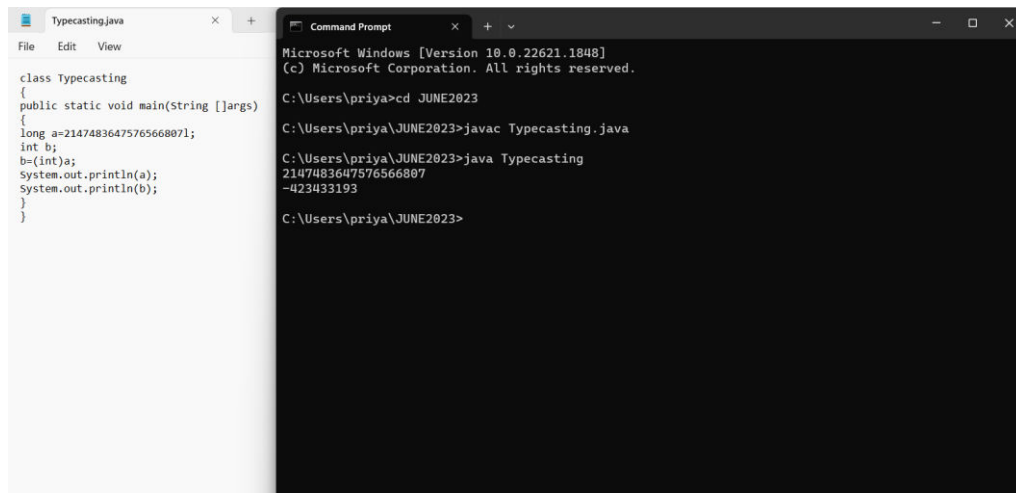
C:\Users\priya\JUNE2023>
```

LONG TO INT:

PROGRAM:

```
class Typecasting
{
    public static void main(String []args)
    {
        long a=2147483647576566807L;
        int b;
        b=(int)a;//Explicit Typecasting
        System.out.println(a);
        System.out.println(b);
    }
}
```

Output:



The image shows a screenshot of a Java IDE window titled 'Typecasting.java' and a Windows Command Prompt window. The IDE window contains the following code:

```
class Typecasting
{
    public static void main(String []args)
    {
        long a=2147483647576566807l;
        int b;
        b=(int)a;
        System.out.println(a);
        System.out.println(b);
    }
}
```

The Command Prompt window shows the following commands and output:

```
Microsoft Windows [Version 10.0.22621.1848]
(c) Microsoft Corporation. All rights reserved.

C:\Users\priya>cd JUNE2023

C:\Users\priya\JUNE2023>javac Typecasting.java

C:\Users\priya\JUNE2023>java Typecasting
2147483647576566807
-423433193

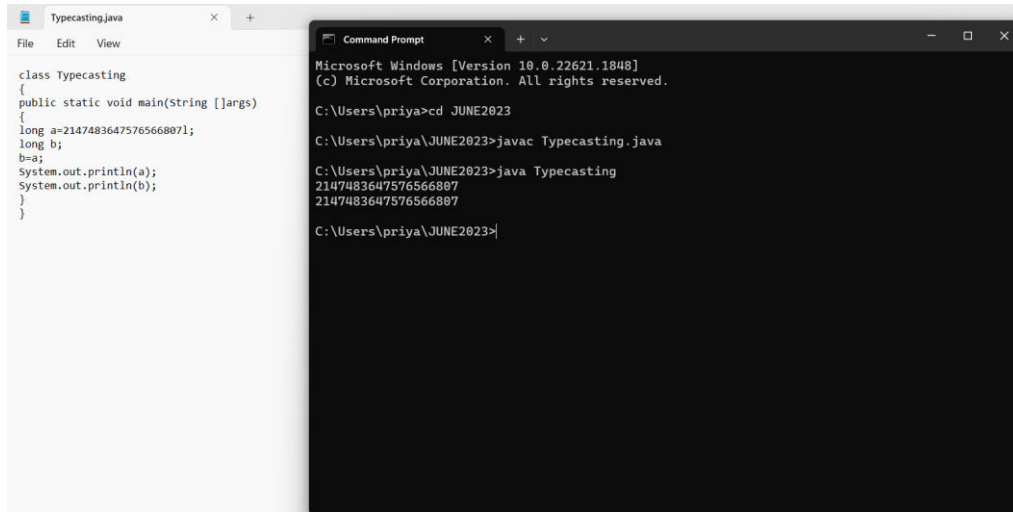
C:\Users\priya\JUNE2023>
```

LONG TO LONG:

PROGRAM:

```
class Typecasting
{
    public static void main(String []args)
    {
        long a=2147483647576566807l;
        long b;
        b=a;
        System.out.println(a);
        System.out.println(b);
    }
}
```

OUTPUT:

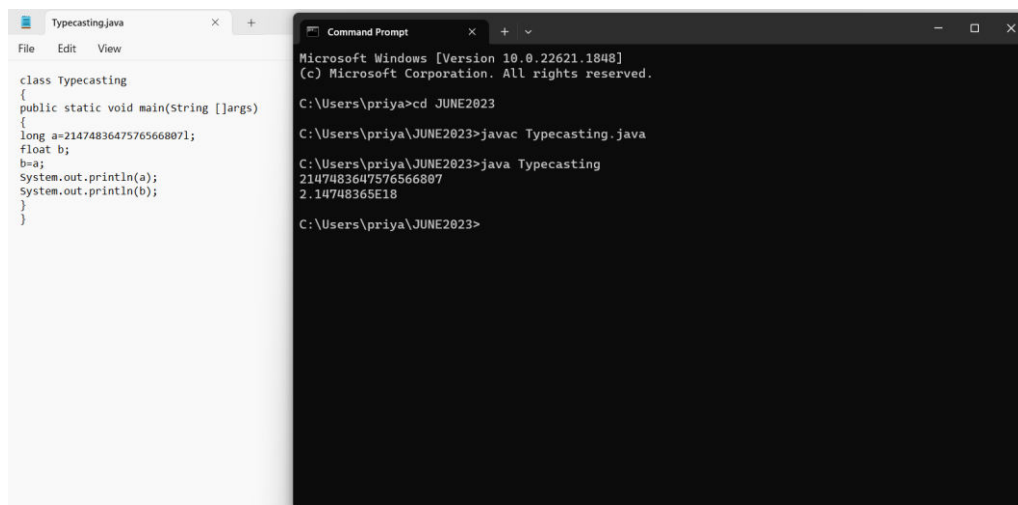


LONG TO FLOAT:

PROGRAM:

```
class Typecasting
{
    public static void main(String []args)
    {
        long a=2147483647576566807l;
        float b;
        b=a;
        System.out.println(a);
        System.out.println(b);
    }
}
```

Output:



The screenshot shows two windows side-by-side. The left window is a text editor titled 'Typecasting.java' containing the following Java code:

```
class Typecasting
{
    public static void main(String []args)
    {
        long a=21474836475765668071;
        float b;
        b=a;
        System.out.println(a);
        System.out.println(b);
    }
}
```

The right window is a Command Prompt titled 'Command Prompt' showing the execution of the program:

```
Microsoft Windows [Version 10.0.22621.1848]
(c) Microsoft Corporation. All rights reserved.

C:\Users\priya>cd JUNE2023

C:\Users\priya\JUNE2023>javac Typecasting.java

C:\Users\priya\JUNE2023>java Typecasting
2147483647576566807
2.14748365E18

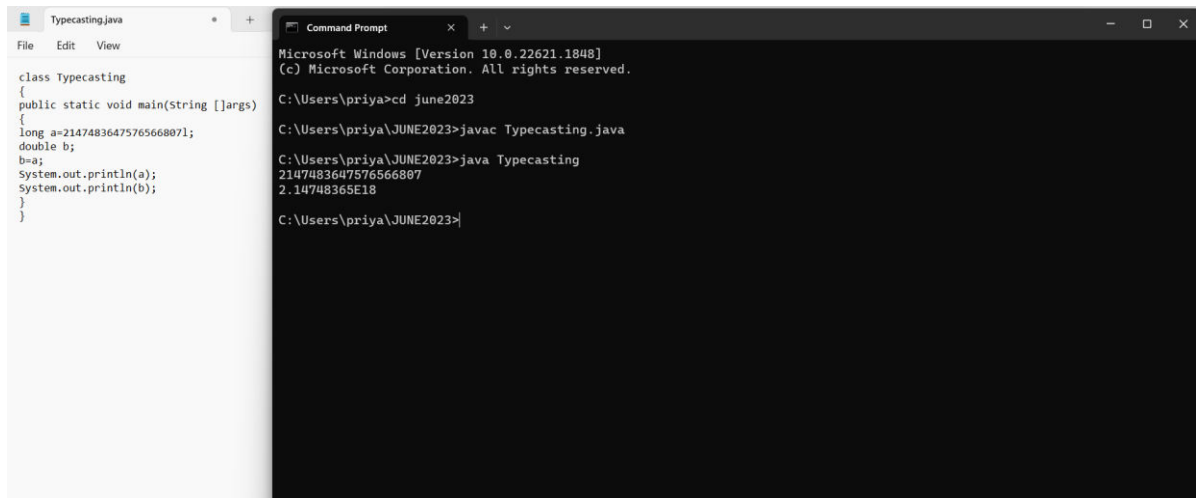
C:\Users\priya\JUNE2023>
```

LONG TO DOUBLE:

PROGRAM:

```
class Typecasting
{
    public static void main(String []args)
    {
        long a=21474836475765668071;
        double b;
        b=a;
        System.out.println(a);
        System.out.println(b);
    }
}
```

OUTPUT:



The screenshot shows a Java IDE window titled 'Typecasting.java' on the left and a Windows Command Prompt on the right. The IDE contains the following code:

```
class Typecasting
{
    public static void main(String []args)
    {
        long a=2147483647576566807l;
        double b;
        b=a;
        System.out.println(a);
        System.out.println(b);
    }
}
```

The Command Prompt shows the following commands and output:

```
Microsoft Windows [Version 10.0.22621.1848]
(c) Microsoft Corporation. All rights reserved.

C:\Users\priya>cd june2023

C:\Users\priya\JUNE2023>javac Typecasting.java

C:\Users\priya\JUNE2023>java Typecasting
2147483647576566807
2.14748365E18

C:\Users\priya\JUNE2023>
```

LONG TO CHAR:

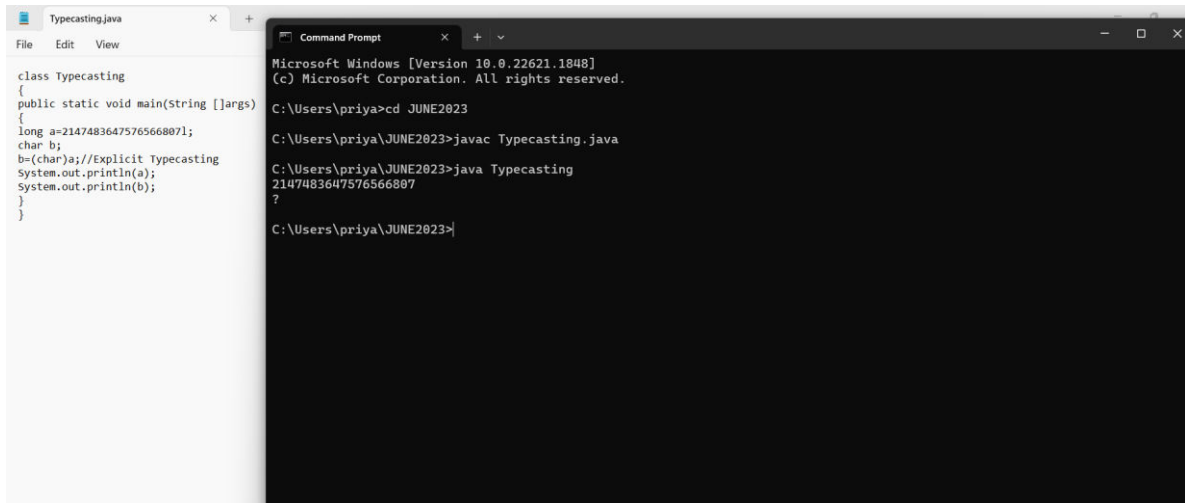
PROGRAM:

```
class Typecasting
{
    public static void main(String []args)
    {
        long a=2147483647576566807l;
        char b;
        b=a;//ERROR
        b=(char)a;//Explicir Typecasting
        System.out.println(a);
        System.out.println(b);
    }
}
```



```
}
```

Output:



The screenshot shows a Java IDE window titled 'Typecasting.java' on the left and a Windows Command Prompt on the right. The IDE contains the following code:

```
class Typecasting
{
    public static void main(String []args)
    {
        long a=2147483647576566807l;
        char b;
        b=(char)a;//Explicit Typecasting
        System.out.println(a);
        System.out.println(b);
    }
}
```

The Command Prompt shows the following commands and output:

```
Microsoft Windows [Version 10.0.22621.1848]
(c) Microsoft Corporation. All rights reserved.

C:\Users\priya>cd JUNE2023

C:\Users\priya\JUNE2023>javac Typecasting.java

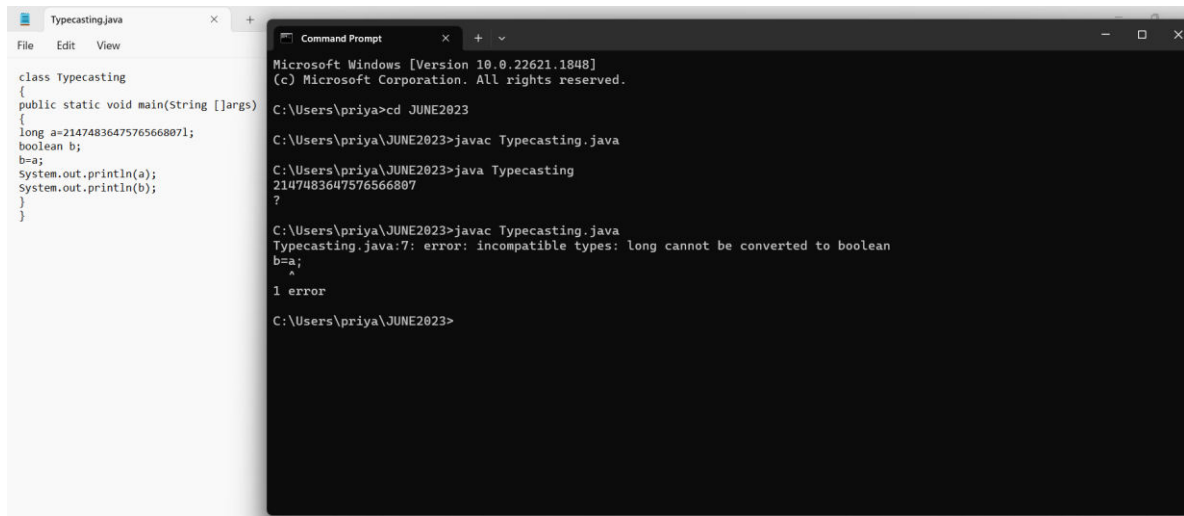
C:\Users\priya\JUNE2023>java Typecasting
2147483647576566807
?
```

LONG TO BOOLEAN:

PROGRAM:

```
class Typecasting
{
    public static void main(String []args)
    {
        long a=2147483647576566807l;
        boolean b;
        b=a;
        System.out.println(a);
        System.out.println(b);
    }
}
```

OUTPUT:



The screenshot shows a Java IDE window titled 'Typecasting.java' with the following code:

```
class Typecasting
{
    public static void main(String []args)
    {
        long a=21474836475765668071;
        boolean b;
        b=a;
        System.out.println(a);
        System.out.println(b);
    }
}
```

Next to it is a Command Prompt window showing the execution steps:

```
Microsoft Windows [Version 10.0.22621.1848]
(c) Microsoft Corporation. All rights reserved.

C:\Users\priya>cd JUNE2023

C:\Users\priya\JUNE2023>javac Typecasting.java

C:\Users\priya\JUNE2023>java Typecasting
2147483647576566807
?

C:\Users\priya\JUNE2023>javac Typecasting.java
Typecasting.java:7: error: incompatible types: long cannot be converted to boolean
    b=a;
    ^
1 error

C:\Users\priya\JUNE2023>
```

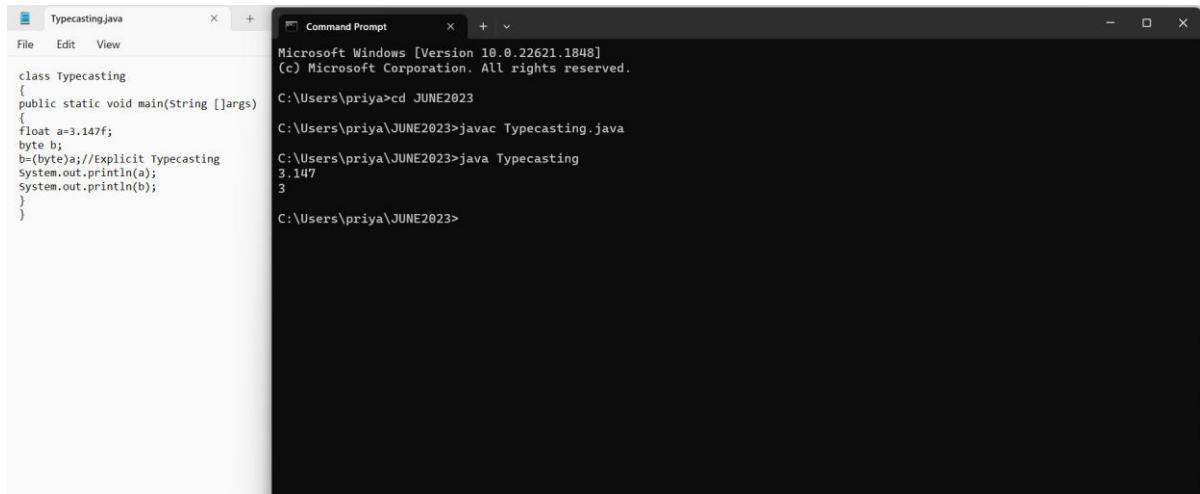
FLOAT TO BYTE:

PROGRAM:

```
class Typecasting
{
    public static void main(String []args)
    {
        float a=3.147f;
        byte b;
        b=a;//ERROR
        b=(byte)a;//Explicit Typecasting
        System.out.println(a);
        System.out.println(b);
    }
}
```

```
}
```

Output:



The screenshot shows a Java IDE window titled 'Typecasting.java' with the following code:

```
class Typecasting
{
    public static void main(String []args)
    {
        float a=3.147f;
        byte b;
        b=(byte)a;//Explicit Typecasting
        System.out.println(a);
        System.out.println(b);
    }
}
```

Next to it is a Windows Command Prompt window showing the execution steps:

```
Microsoft Windows [Version 10.0.22621.1848]
(c) Microsoft Corporation. All rights reserved.

C:\Users\priya>cd JUNE2023

C:\Users\priya\JUNE2023>javac Typecasting.java

C:\Users\priya\JUNE2023>java Typecasting

3.147
3

C:\Users\priya\JUNE2023>
```

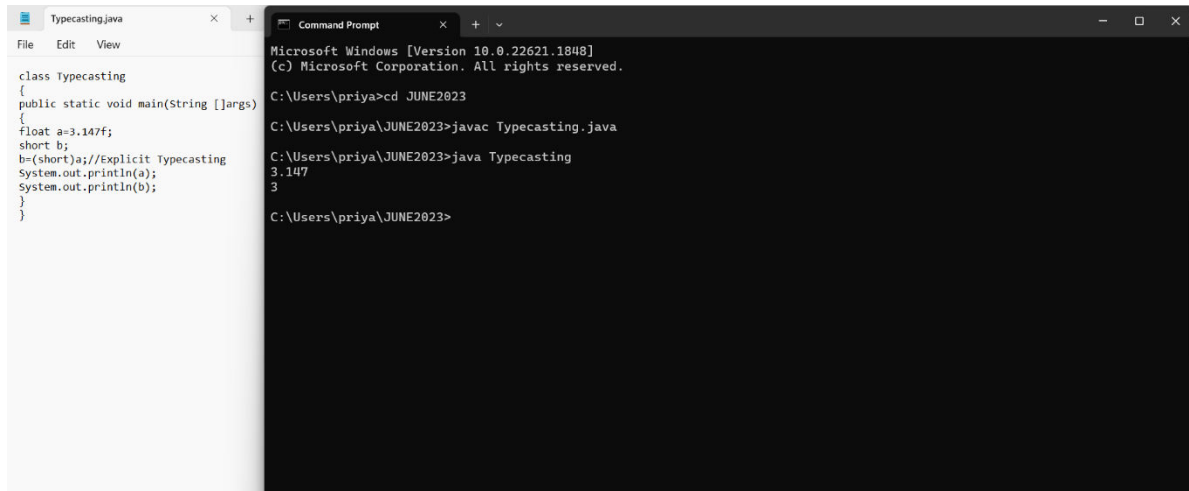
FLOAT TO SHORT:

PROGRAM:

```
class Typecasting
{
    public static void main(String []args)
    {
        float a=3.147f;
        short b;
        b=a;//ERROR
        b=(short)a;//Explicit Typecasting
        System.out.println(a);
        System.out.println(b);
    }
}
```

```
}
```

OUTPUT:



The screenshot shows a Java IDE window titled 'Typecasting.java' with the following code:

```
class Typecasting
{
    public static void main(String []args)
    {
        float a=3.147f;
        short b;
        b=(short)a;//Explicit Typecasting
        System.out.println(a);
        System.out.println(b);
    }
}
```

Next to it is a Windows Command Prompt window showing the execution steps:

```
Microsoft Windows [Version 10.0.22621.1848]
(c) Microsoft Corporation. All rights reserved.

C:\Users\priya>cd JUNE2023

C:\Users\priya\JUNE2023>javac Typecasting.java

C:\Users\priya\JUNE2023>java Typecasting
3.147
3

C:\Users\priya\JUNE2023>
```

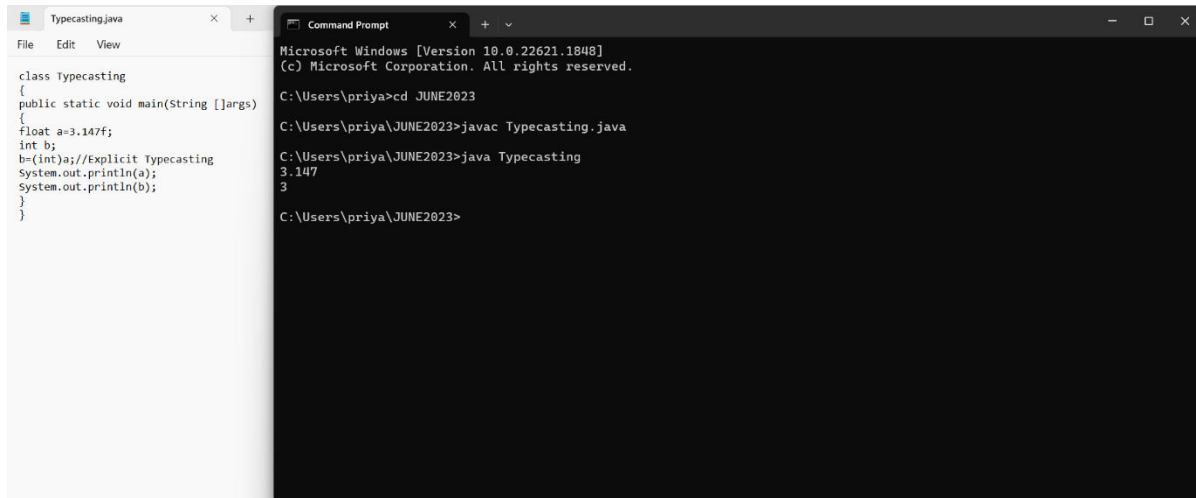
FLOAT TO INT:

PROGRAM:

```
class Typecasting
{
    public static void main(String []args)
    {
        float a=3.147f;
        int b;
        b=a;//ERROR
        b=(int)a;//Explicit Typecasting
        System.out.println(a);
        System.out.println(b);
    }
}
```

```
}
```

OUTPUT:



The screenshot shows a Java IDE window titled 'Typecasting.java' with the following code:

```
class Typecasting
{
    public static void main(String []args)
    {
        float a=3.147f;
        int b;
        b=(int)a;//Explicit Typecasting
        System.out.println(a);
        System.out.println(b);
    }
}
```

Next to it is a Windows Command Prompt window showing the execution steps:

```
Microsoft Windows [Version 10.0.22621.1848]
(c) Microsoft Corporation. All rights reserved.

C:\Users\priya>cd JUNE2023

C:\Users\priya\JUNE2023>javac Typecasting.java

C:\Users\priya\JUNE2023>java Typecasting
3.147
3

C:\Users\priya\JUNE2023>
```

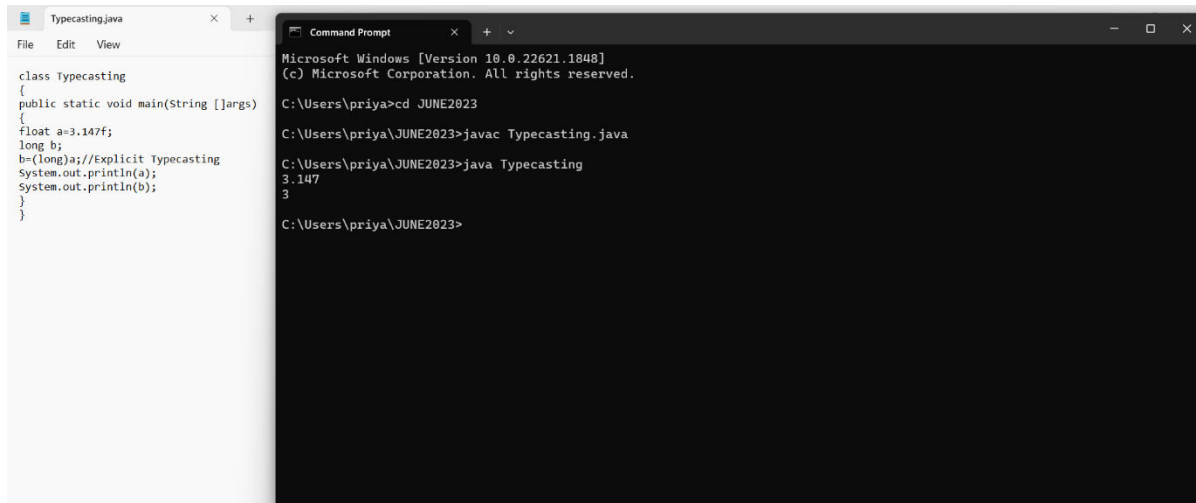
FLOAT TO LONG

PROGRAM:

```
class Typecasting
{
    public static void main(String []args)
    {
        float a=3.147f;
        long b;
        b=a;//ERROR
        b=(long)a;//Explicit Typecasting
        System.out.println(a);
        System.out.println(b);
    }
}
```

```
}
```

OUTPUT:



The screenshot shows a Java IDE window titled 'Typecasting.java' with the following code:

```
class Typecasting
{
    public static void main(String []args)
    {
        float a=3.147f;
        long b;
        b=(long)a;//Explicit Typecasting
        System.out.println(a);
        System.out.println(b);
    }
}
```

Next to it is a Windows Command Prompt window showing the execution steps:

```
Microsoft Windows [Version 10.0.22621.1848]
(c) Microsoft Corporation. All rights reserved.

C:\Users\priya>cd JUNE2023

C:\Users\priya\JUNE2023>javac Typecasting.java

C:\Users\priya\JUNE2023>java Typecasting
3.147
3

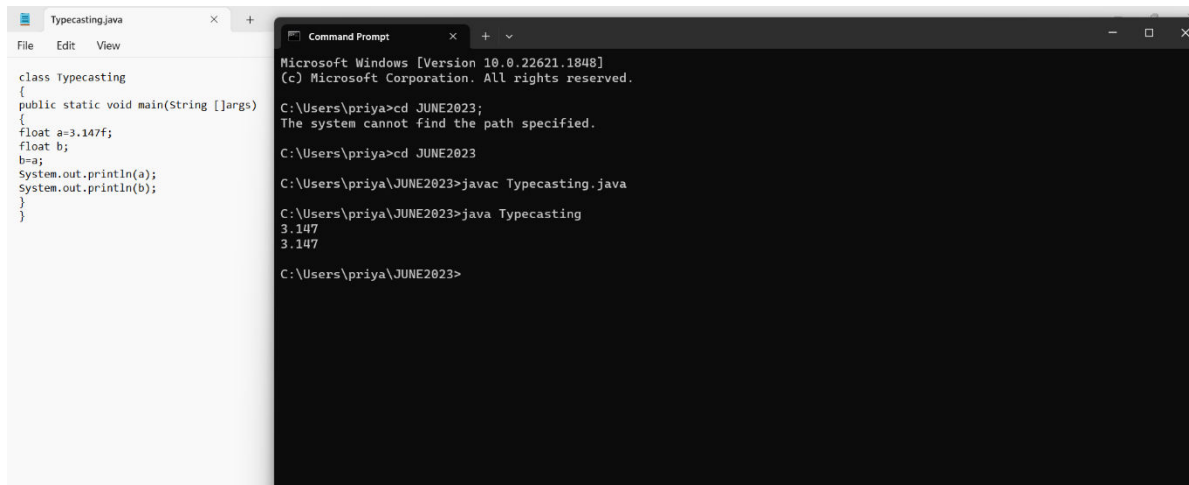
C:\Users\priya\JUNE2023>
```

FLOAT TO FLOAT:

PROGRAM:

```
class Typecasting
{
    public static void main(String []args)
    {
        float a=3.147f;
        float b;
        b=a;
        System.out.println(a);
        System.out.println(b);
    }
}
```

OUTPUT:



The screenshot shows a Java IDE window titled 'Typecasting.java' with the following code:

```
class Typecasting
{
    public static void main(String []args)
    {
        float a=3.147f;
        float b;
        b=a;
        System.out.println(a);
        System.out.println(b);
    }
}
```

Next to it is a Windows Command Prompt window showing the execution steps:

```
Microsoft Windows [Version 10.0.22621.1848]
(c) Microsoft Corporation. All rights reserved.

C:\Users\priya>cd JUNE2023;
The system cannot find the path specified.

C:\Users\priya>cd JUNE2023

C:\Users\priya\JUNE2023>javac Typecasting.java

C:\Users\priya\JUNE2023>java Typecasting
3.147
3.147

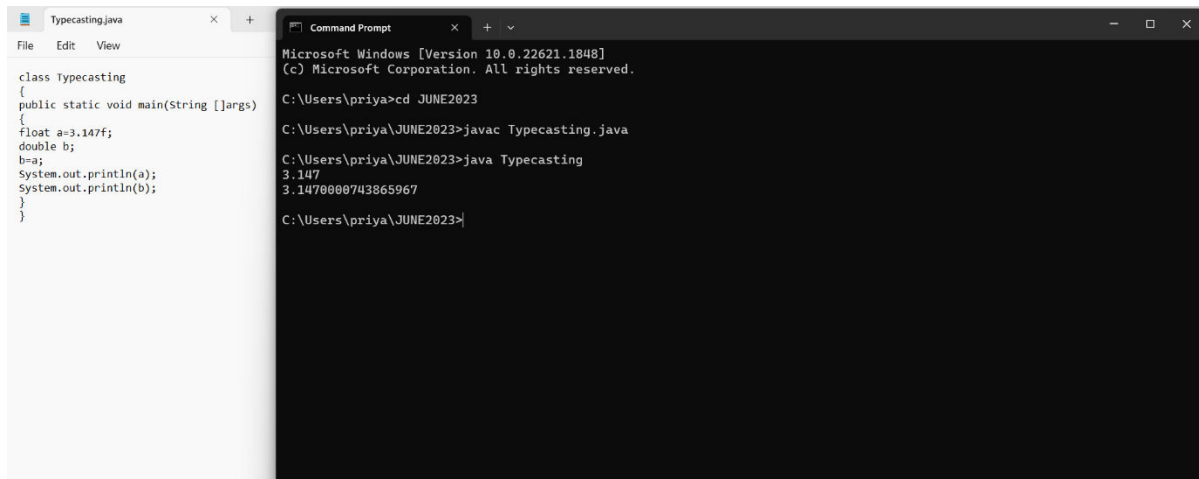
C:\Users\priya\JUNE2023>
```

FLOAT TO DOUBLE:

PROGRAM:

```
class Typecasting
{
    public static void main(String []args)
    {
        float a=3.147f;
        double b;
        b=a;
        System.out.println(a);
        System.out.println(b);
    }
}
```

OUTPUT:



The screenshot shows a Java IDE window titled 'Typecasting.java' on the left and a Windows Command Prompt on the right. The IDE contains the following code:

```
class Typecasting
{
    public static void main(String []args)
    {
        float a=3.147f;
        double b;
        b=a;
        System.out.println(a);
        System.out.println(b);
    }
}
```

The Command Prompt shows the following commands and output:

```
Microsoft Windows [Version 10.0.22621.1848]
(c) Microsoft Corporation. All rights reserved.

C:\Users\priya>cd JUNE2023

C:\Users\priya\JUNE2023>javac Typecasting.java

C:\Users\priya\JUNE2023>java Typecasting
3.147
3.1470000743865967

C:\Users\priya\JUNE2023>
```

FLOAT TO CHAR:

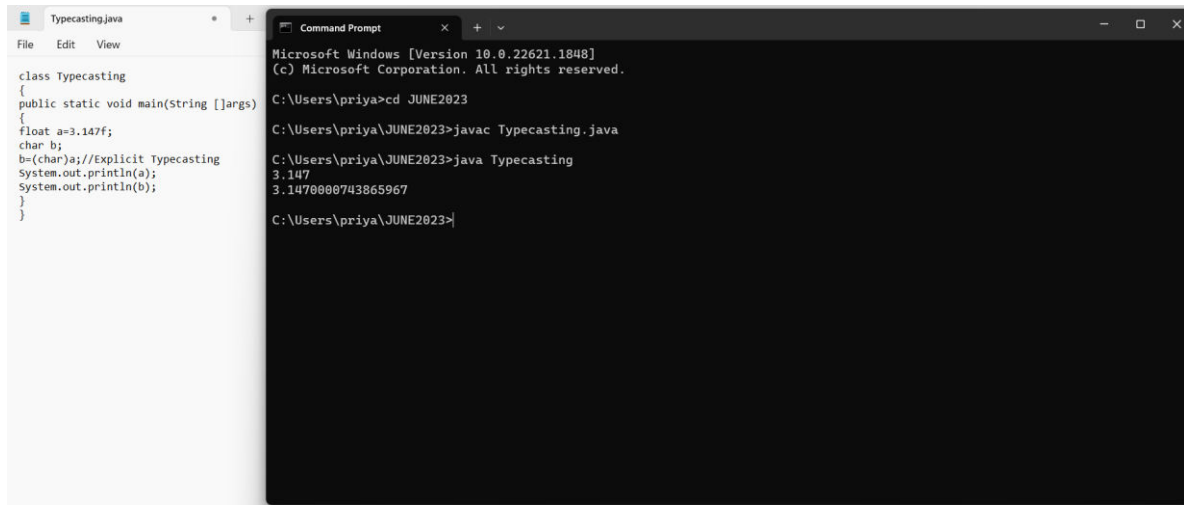
PROGRAM:

```
class Typecasting
{
    public static void main(String []args)
    {
        float a=3.147f;
        char b;
        b=a;//ERROR
        b=(char)a;//Explicit Typecasting
        System.out.println(a);
        System.out.println(b);
    }
}
```



```
}
```

OUTPUT:



The screenshot shows a Java IDE window titled 'Typecasting.java' with the following code:

```
class Typecasting
{
    public static void main(String []args)
    {
        float a=3.147f;
        char b;
        b=(char)a;//Explicit Typecasting
        System.out.println(a);
        System.out.println(b);
    }
}
```

Next to it is a Command Prompt window showing the execution steps:

```
Microsoft Windows [Version 10.0.22621.1848]
(c) Microsoft Corporation. All rights reserved.

C:\Users\priya>cd JUNE2023

C:\Users\priya\JUNE2023>javac Typecasting.java

C:\Users\priya\JUNE2023>java Typecasting
3.147
3.1470000743865967

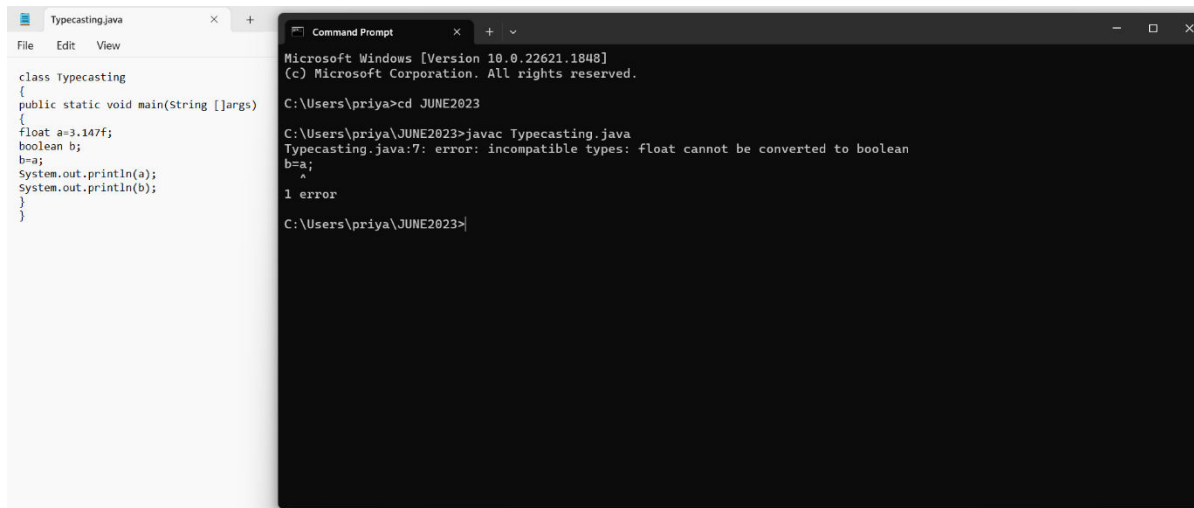
C:\Users\priya\JUNE2023>
```

FLOAT TO BOOLEAN:

PROGRAM:

```
class Typecasting
{
    public static void main(String []args)
    {
        float a=3.147f;
        boolean b;
        b=a;
        System.out.println(a);
        System.out.println(b);
    }
}
```

Output:



The screenshot shows a Java IDE window titled 'Typecasting.java' on the left and a Windows Command Prompt on the right. The IDE contains the following code:

```
class Typecasting
{
    public static void main(String []args)
    {
        float a=3.147f;
        boolean b;
        b=a;
        System.out.println(a);
        System.out.println(b);
    }
}
```

The Command Prompt shows the following commands and output:

```
Microsoft Windows [Version 10.0.22621.1848]
(c) Microsoft Corporation. All rights reserved.

C:\Users\priya>cd JUNE2023

C:\Users\priya\JUNE2023>javac Typecasting.java
Typecasting.java:7: error: incompatible types: float cannot be converted to boolean
    b=a;
    ^
1 error

C:\Users\priya\JUNE2023>
```

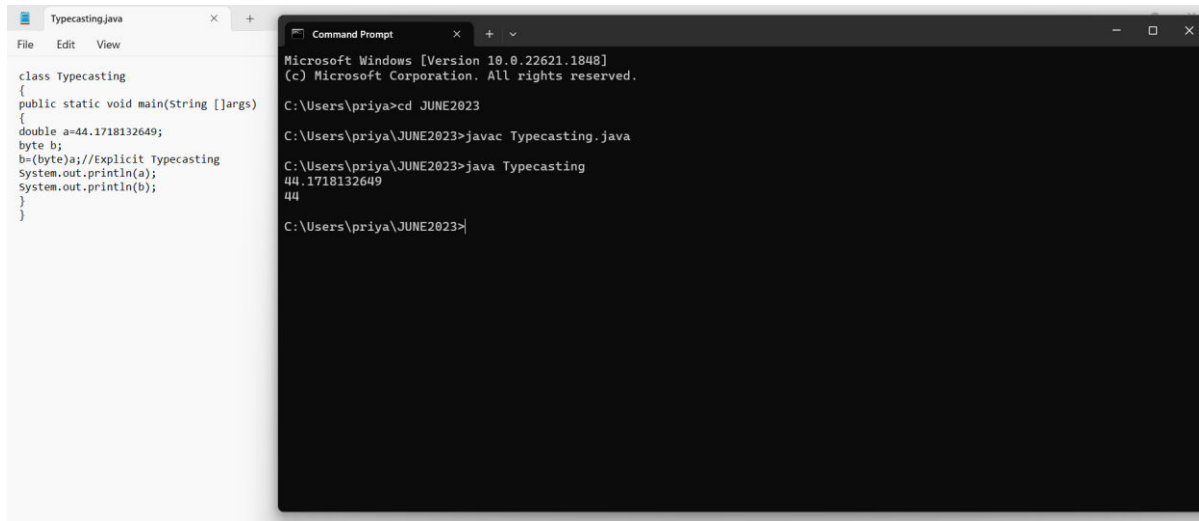
DOUBLE TO SHORT:

PROGRAM:

```
class Typecasting
{
    public static void main(String []args)
    {
        double a=44.1718132649;
        byte b;
        b=a;//ERROR
        b=(byte)a;//Explicit Typecasting
        System.out.println(a);
        System.out.println(b);
    }
}
```

```
}
```

OUTPUT:



The screenshot shows a Java IDE window titled 'Typecasting.java' with the following code:

```
class Typecasting
{
    public static void main(String []args)
    {
        double a=44.1718132649;
        byte b;
        b=(byte)a;//Explicit Typecasting
        System.out.println(a);
        System.out.println(b);
    }
}
```

Next to it is a Windows Command Prompt window showing the execution steps:

```
Microsoft Windows [Version 10.0.22621.1848]
(c) Microsoft Corporation. All rights reserved.

C:\Users\priya>cd JUNE2023

C:\Users\priya\JUNE2023>javac Typecasting.java

C:\Users\priya\JUNE2023>java Typecasting
44.1718132649
44

C:\Users\priya\JUNE2023>
```

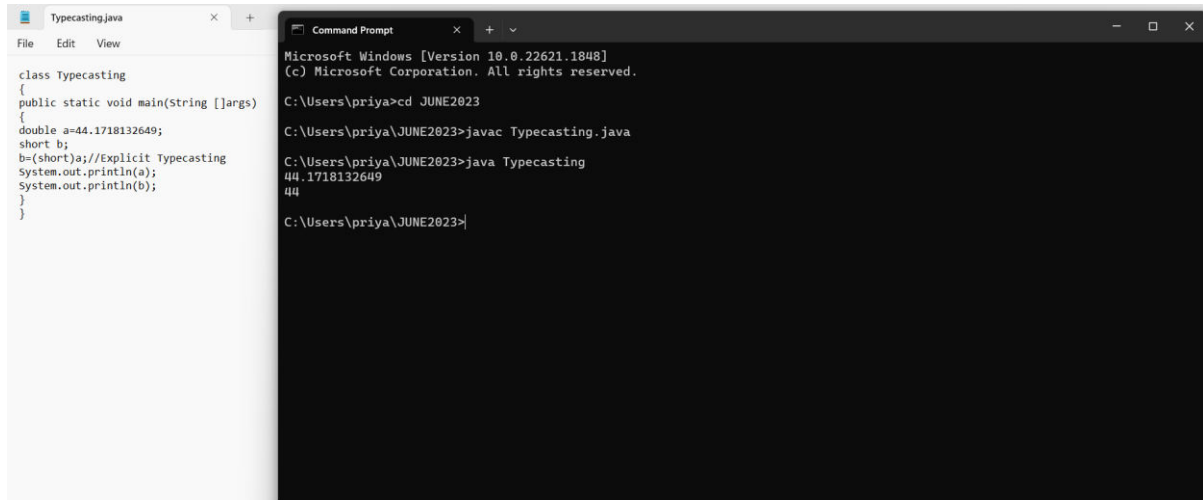
DOUBLE TO SHORT:

PROGRAM:

```
class Typecasting
{
    public static void main(String []args)
    {
        double a=44.1718132649;
        short b;
        b=a;//ERROR
        b=(short)a;//Explicit Typecasting
        System.out.println(a);
        System.out.println(b);
    }
}
```

```
}
```

OUTPUT:



The screenshot shows a Java IDE window titled 'Typecasting.java' on the left and a Windows Command Prompt on the right. The IDE contains the following Java code:

```
class Typecasting
{
    public static void main(String []args)
    {
        double a=44.1718132649;
        short b;
        b=(short)a;//Explicit Typecasting
        System.out.println(a);
        System.out.println(b);
    }
}
```

The Command Prompt shows the following commands and output:

```
Microsoft Windows [Version 10.0.22621.1848]
(c) Microsoft Corporation. All rights reserved.

C:\Users\priya>cd JUNE2023

C:\Users\priya\JUNE2023>javac Typecasting.java

C:\Users\priya\JUNE2023>java Typecasting
44.1718132649
44

C:\Users\priya\JUNE2023>
```

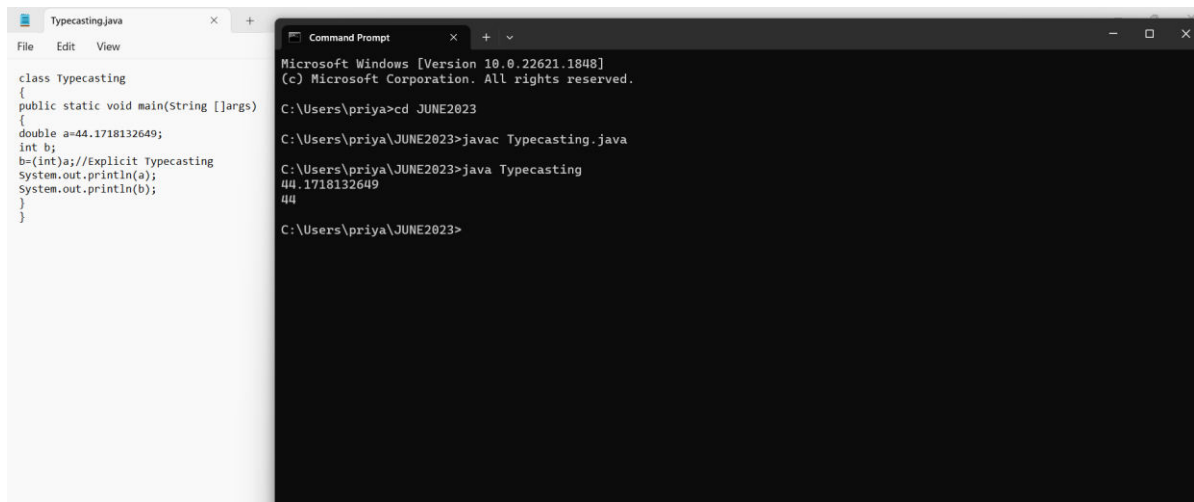
DOUBLE TO INT:

PROGRAM:

```
class Typecasting
{
    public static void main(String []args)
    {
        double a=44.1718132649;
        int b;
        b=a;//ERROR
        b=(int)a;//Explicit Typecasting
        System.out.println(a);
        System.out.println(b);
    }
}
```

```
}
```

Output:



The screenshot shows a Java IDE window titled 'Typecasting.java' on the left and a Windows Command Prompt on the right. The IDE contains the following code:

```
class Typecasting
{
    public static void main(String []args)
    {
        double a=44.1718132649;
        int b;
        b=(int)a;//Explicit Typecasting
        System.out.println(a);
        System.out.println(b);
    }
}
```

The Command Prompt shows the following commands and output:

```
Microsoft Windows [Version 10.0.22621.1848]
(c) Microsoft Corporation. All rights reserved.

C:\Users\priya>cd JUNE2023

C:\Users\priya\JUNE2023>javac Typecasting.java

C:\Users\priya\JUNE2023>java Typecasting
44.1718132649
44

C:\Users\priya\JUNE2023>
```

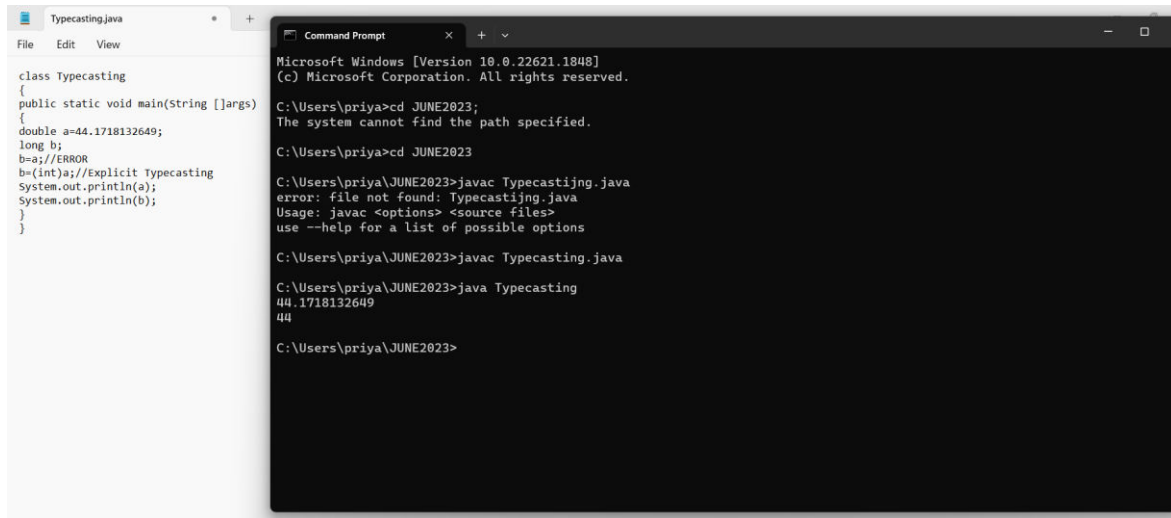
DOUBLE TO LONG:

PROGRAM:

```
class Typecasting
{
    public static void main(String []args)
    {
        double a=44.1718132649;
        long b;
        b=a;//ERROR
        b=(int)a;//Explicit Typecasting
        System.out.println(a);
        System.out.println(b);
    }
}
```

```
}
```

OUTPUT:



The screenshot shows a Java IDE window titled 'Typecasting.java' with the following code:

```
class Typecasting
{
    public static void main(String []args)
    {
        double a=44.1718132649;
        long b;
        b=a;//ERROR
        b=(int)a;//Explicit Typecasting
        System.out.println(a);
        System.out.println(b);
    }
}
```

The Command Prompt window shows the following commands and output:

```
Microsoft Windows [Version 10.0.22621.1848]
(c) Microsoft Corporation. All rights reserved.

C:\Users\priya>cd JUNE2023;
The system cannot find the path specified.

C:\Users\priya>cd JUNE2023

C:\Users\priya\JUNE2023>javac Typecastijng.java
error: file not found: Typecastijng.java
Usage: javac <options> <source files>
use --help for a list of possible options

C:\Users\priya\JUNE2023>javac Typecasting.java

C:\Users\priya\JUNE2023>java Typecasting
44.1718132649
44

C:\Users\priya\JUNE2023>
```

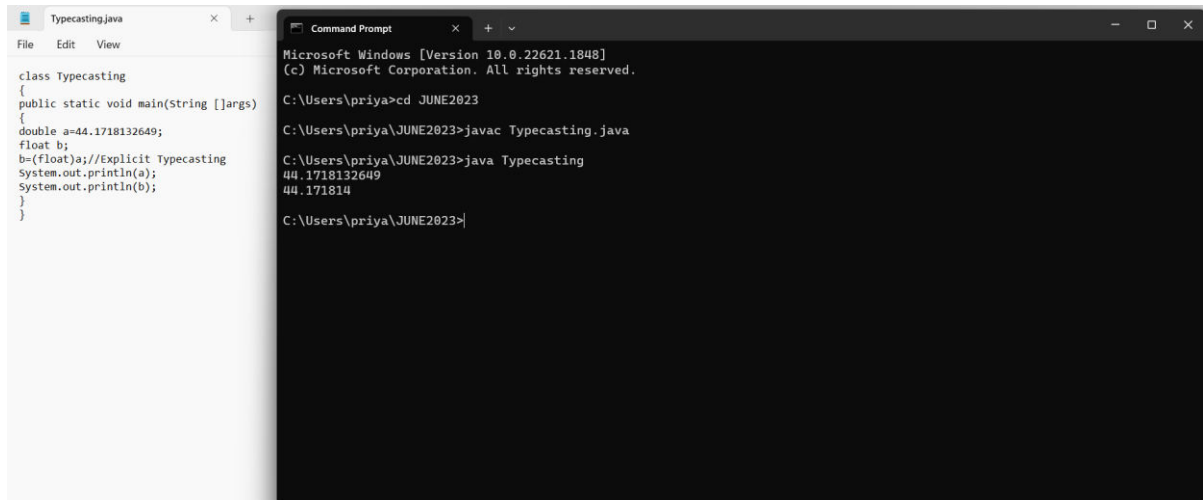
DOUBLE TO FLOAT:

PROGRAM:

```
class Typecasting
{
    public static void main(String []args)
    {
        double a=44.1718132649;
        float b;
        b=a;//ERROR
        b=(float)a;//Explicit Typecasting
        System.out.println(a);
        System.out.println(b);
    }
}
```

```
}
```

Output:



The screenshot shows two windows. The left window, titled 'Typecasting.java', contains the following Java code:

```
class Typecasting
{
    public static void main(String []args)
    {
        double a=44.1718132649;
        float b;
        b=(float)a;//Explicit Typecasting
        System.out.println(a);
        System.out.println(b);
    }
}
```

The right window, titled 'Command Prompt', shows the following commands and output:

```
Microsoft Windows [Version 10.0.22621.1848]
(c) Microsoft Corporation. All rights reserved.

C:\Users\priya>cd JUNE2023

C:\Users\priya\JUNE2023>javac Typecasting.java

C:\Users\priya\JUNE2023>java Typecasting
44.1718132649
44.171814

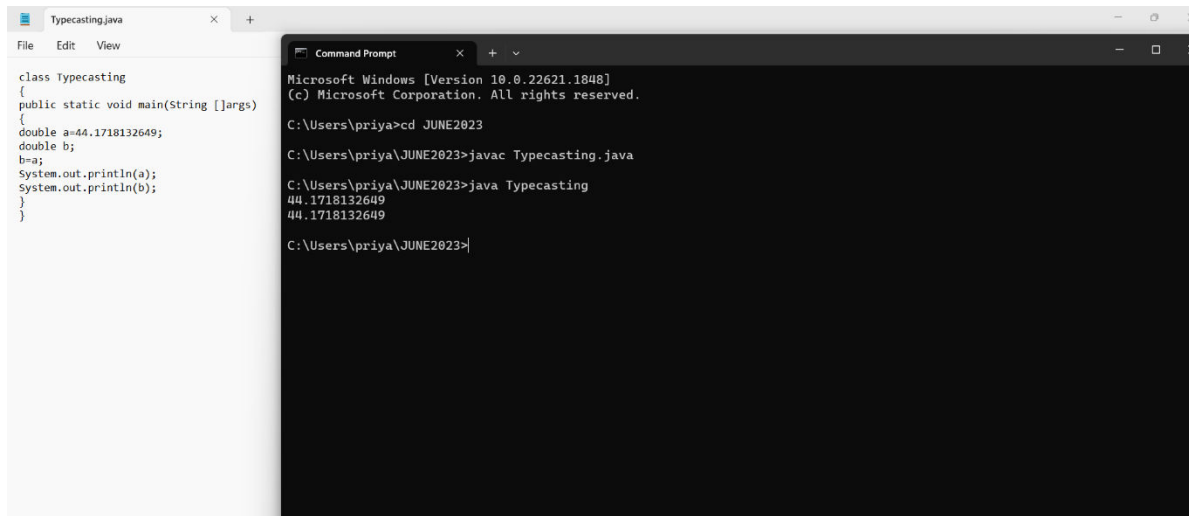
C:\Users\priya\JUNE2023>
```

DOUBLE TO DOUBLE:

PROGRAM:

```
class Typecasting
{
    public static void main(String []args)
    {
        double a=44.1718132649;
        double b;
        b=a;
        System.out.println(a);
        System.out.println(b);
    }
}
```

OUTPUT:



The screenshot shows a Java IDE window titled 'Typecasting.java' with the following code:

```
class Typecasting
{
    public static void main(String []args)
    {
        double a=44.1718132649;
        double b;
        b=a;
        System.out.println(a);
        System.out.println(b);
    }
}
```

Next to it is a Windows Command Prompt window showing the execution steps:

```
Microsoft Windows [Version 10.0.22621.1848]
(c) Microsoft Corporation. All rights reserved.

C:\Users\priya>cd JUNE2023

C:\Users\priya\JUNE2023>javac Typecasting.java

C:\Users\priya\JUNE2023>java Typecasting
44.1718132649
44.1718132649

C:\Users\priya\JUNE2023>|
```

DOUBLE TO CHAR:

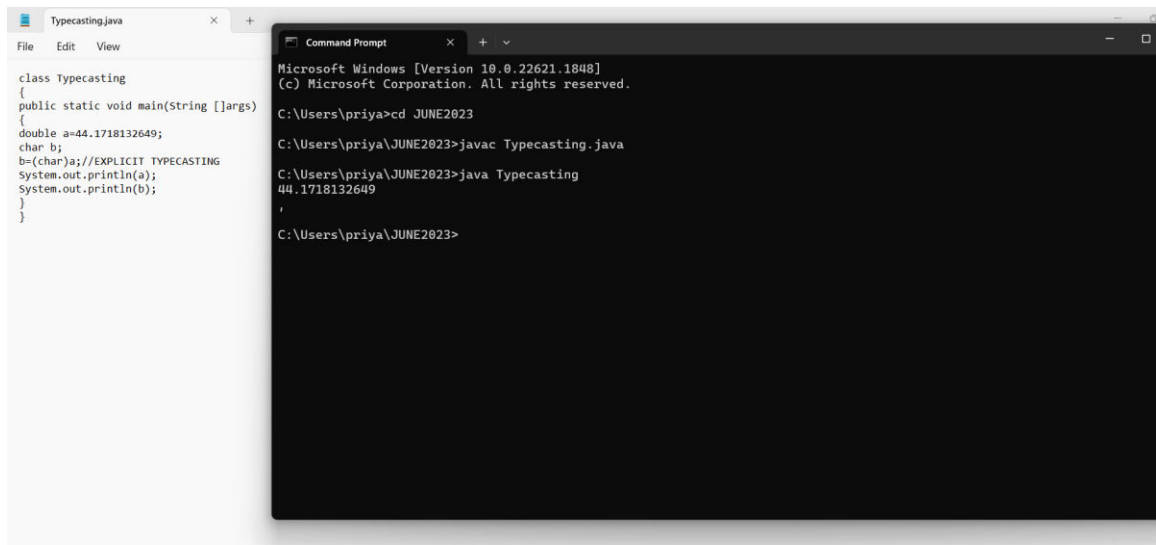
PROGRAM:

```
class Typecasting
{
    public static void main(String []args)
    {
        double a=44.1718132649;
        char b;
        b=a;//ERROR
        b=(char)a;//EXPLICIT TYPECASTING
        System.out.println(a);
        System.out.println(b);
    }
}
```



```
}
```

OUTPUT:



The screenshot shows a Java IDE window titled 'Typecasting.java' with the following code:

```
class Typecasting
{
    public static void main(String []args)
    {
        double a=44.1718132649;
        char b;
        b=(char)a;//EXPLICIT TYPECASTING
        System.out.println(a);
        System.out.println(b);
    }
}
```

Overlaid on the IDE is a Windows Command Prompt window. The command sequence and output are as follows:

```
Microsoft Windows [Version 10.0.22621.1848]
(c) Microsoft Corporation. All rights reserved.

C:\Users\priya>cd JUNE2023

C:\Users\priya\JUNE2023>javac Typecasting.java

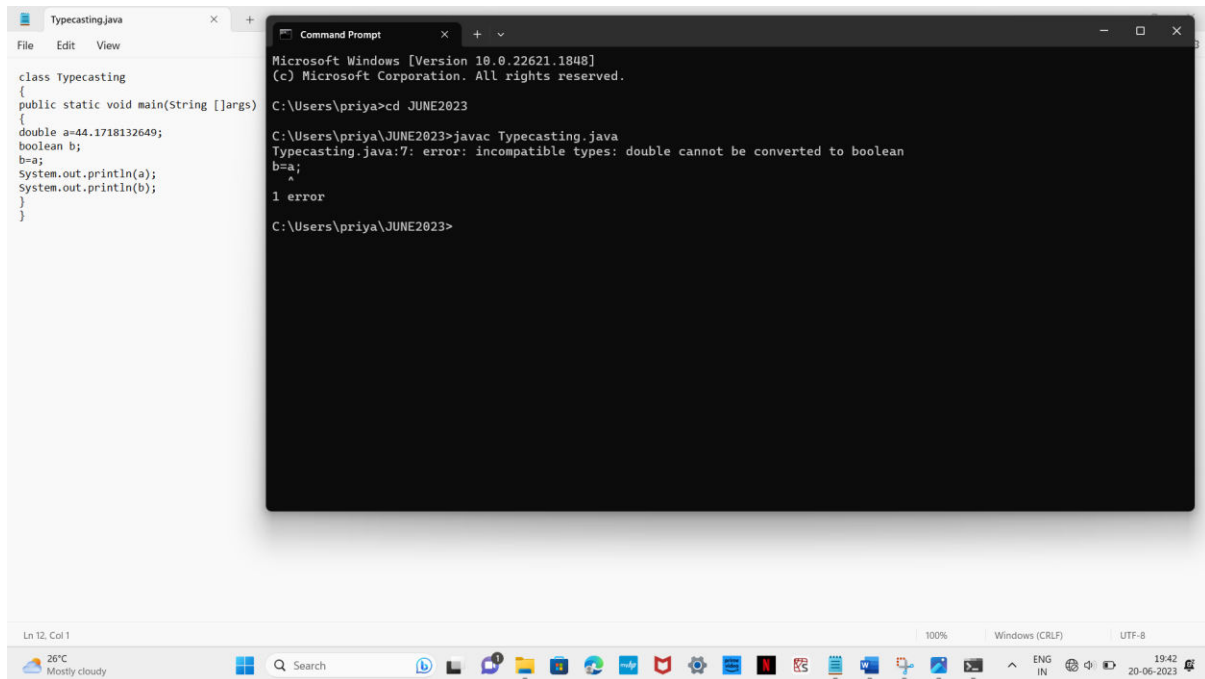
C:\Users\priya\JUNE2023>java Typecasting
44.1718132649
'
```

DOUBLE TO BOOLEAN:

PROGRAM:

```
class Typecasting
{
    public static void main(String []args)
    {
        double a=44.1718132649;
        boolean b;
        b=a;
        System.out.println(a);
        System.out.println(b);
    }
}
```

OUTPUT:



```
class Typecasting
{
    public static void main(String []args)
    {
        double a=44.1718132649;
        boolean b;
        b=a;
        System.out.println(a);
        System.out.println(b);
    }
}
```

```
Microsoft Windows [Version 10.0.22621.1848]
(c) Microsoft Corporation. All rights reserved.

C:\Users\priya>cd JUNE2023

C:\Users\priya\JUNE2023>javac Typecasting.java
Typecasting.java:7: error: incompatible types: double cannot be converted to boolean
    b=a;
    ^
1 error

C:\Users\priya\JUNE2023>
```

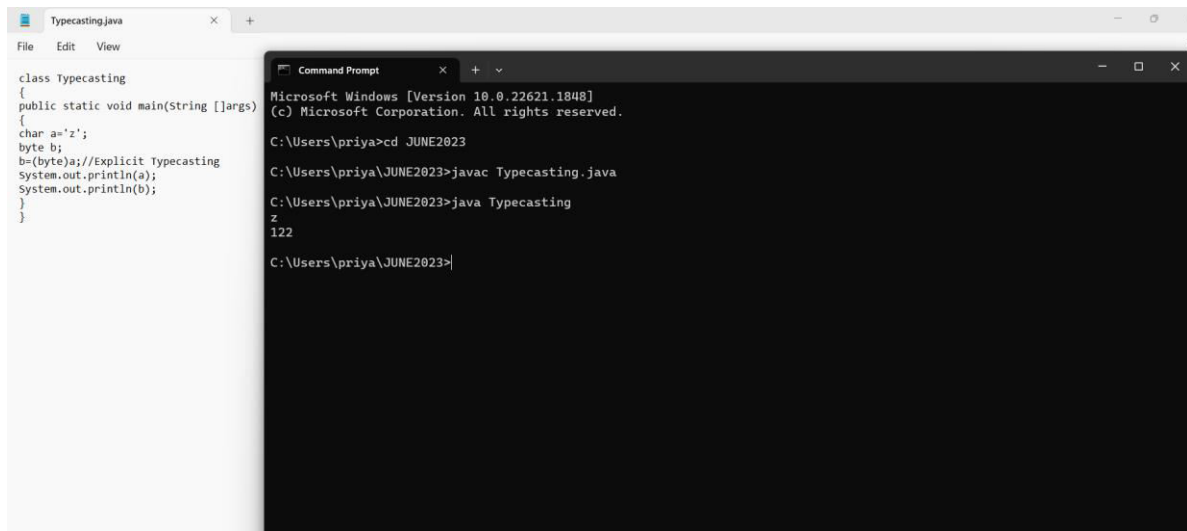
CHAR TO BYTE:

PROGRAM:

```
class Typecasting
{
    public static void main(String []args)
    {
        char a='z';
        byte b;
        b=a;//ERROR
        b=(byte)a;//Explicit Typecasting
        System.out.println(a);
        System.out.println(b);
    }
}
```

```
}
```

Output:



The screenshot shows a Java IDE window titled 'Typecasting.java' with the following code:

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

Next to it is a Windows Command Prompt window showing the execution steps:

```
Microsoft Windows [Version 10.0.22621.1848]
(c) Microsoft Corporation. All rights reserved.

C:\Users\priya>cd JUNE2023

C:\Users\priya\JUNE2023>javac Typecasting.java

C:\Users\priya\JUNE2023>java Typecasting
z
122

C:\Users\priya\JUNE2023>|
```

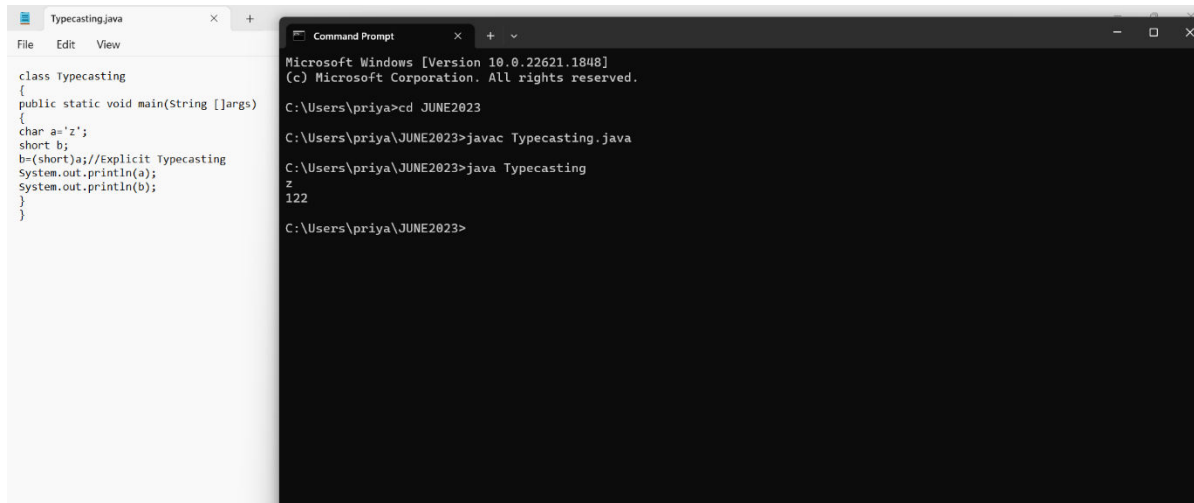
CHAR TO SHORT:

PROGRAM:

```
class Typecasting
{
    public static void main(String []args)
    {
        char a='z';
        short b;
        b=a;//ERROR
        b=(short)a;//Explicit Typecasting
        System.out.println(a);
        System.out.println(b);
    }
}
```

```
}
```

OUTPUT:



The screenshot shows a Java IDE window titled 'Typecasting.java' with the following code:

```
class Typecasting
{
    public static void main(String []args)
    {
        char a='z';
        short b;
        b=(short)a;//Explicit Typecasting
        System.out.println(a);
        System.out.println(b);
    }
}
```

Next to it is a Windows Command Prompt window showing the execution steps:

```
Microsoft Windows [Version 10.0.22621.1840]
(c) Microsoft Corporation. All rights reserved.

C:\Users\priya>cd JUNE2023

C:\Users\priya\JUNE2023>javac Typecasting.java

C:\Users\priya\JUNE2023>java Typecasting

z
122

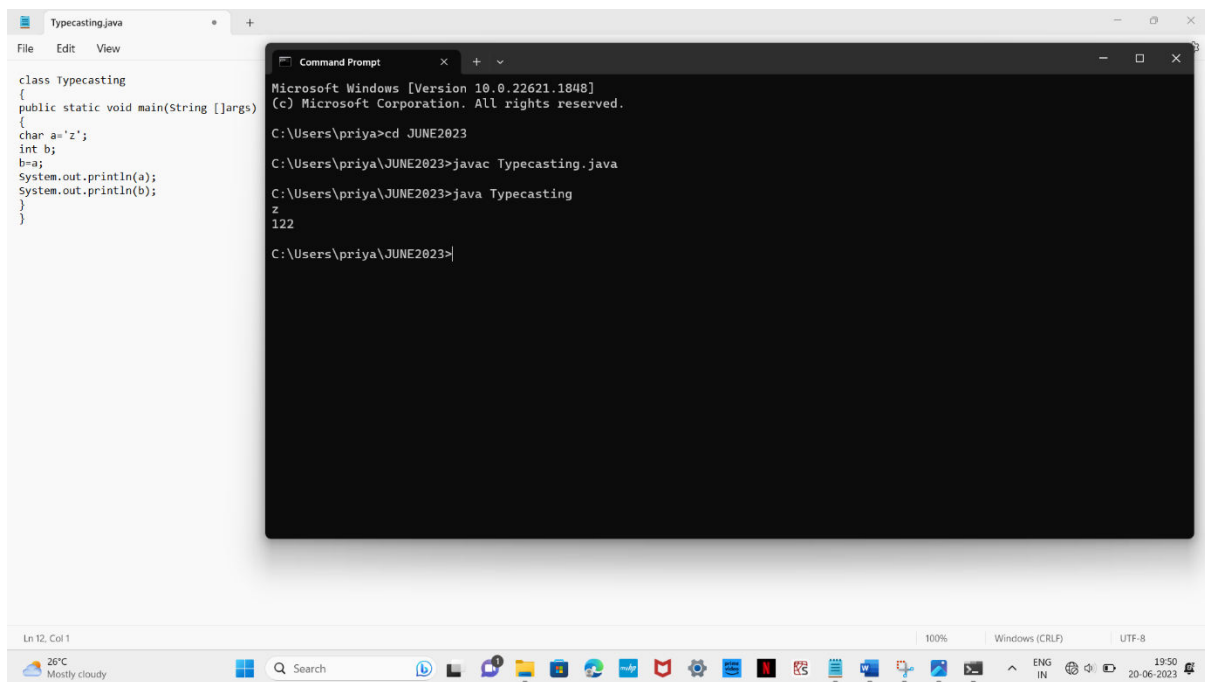
C:\Users\priya\JUNE2023>
```

CHAR TO INT:

PROGRAM:

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

OUTPUT:



The screenshot shows a Java IDE window titled 'Typecasting.java' with the following code:

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

Overlaid on the IDE is a Windows Command Prompt window. The command prompt shows the following sequence of commands and output:

```
Microsoft Windows [Version 10.0.22621.1848]
(c) Microsoft Corporation. All rights reserved.

C:\Users\priya>cd JUNE2023

C:\Users\priya\JUNE2023>javac Typecasting.java

C:\Users\priya\JUNE2023>java Typecasting
z
122

C:\Users\priya\JUNE2023>|
```

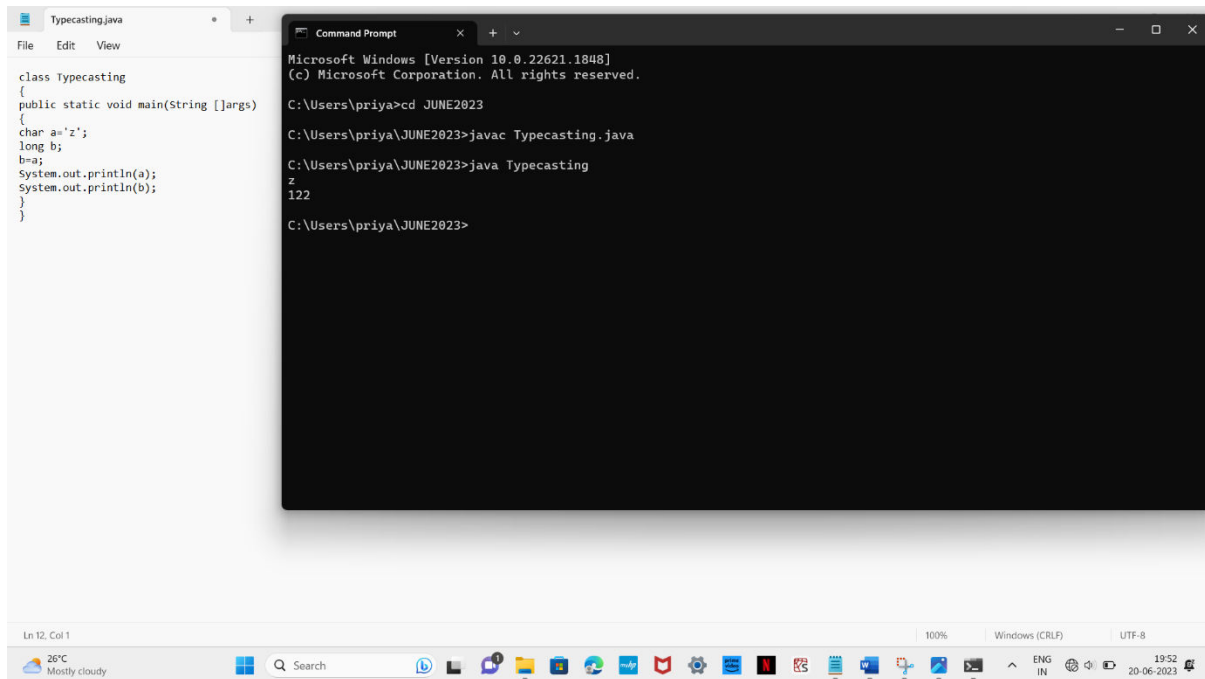
The IDE status bar at the bottom indicates 'Ln 12, Col 1', '100%', 'Windows (CRLF)', and 'UTF-8'. The Windows taskbar at the very bottom shows the date and time as '20-06-2023 19:50'.

CHAR TO LONG:

PROGRAM:

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

Output:



The screenshot displays a Windows desktop with two windows. The 'Typecasting.java' window shows the following code:

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

The 'Command Prompt' window shows the execution steps:

```
Microsoft Windows [Version 10.0.22621.1848]
(c) Microsoft Corporation. All rights reserved.

C:\Users\priya>cd JUNE2023

C:\Users\priya\JUNE2023>javac Typecasting.java

C:\Users\priya\JUNE2023>java Typecasting

z
122

C:\Users\priya\JUNE2023>
```

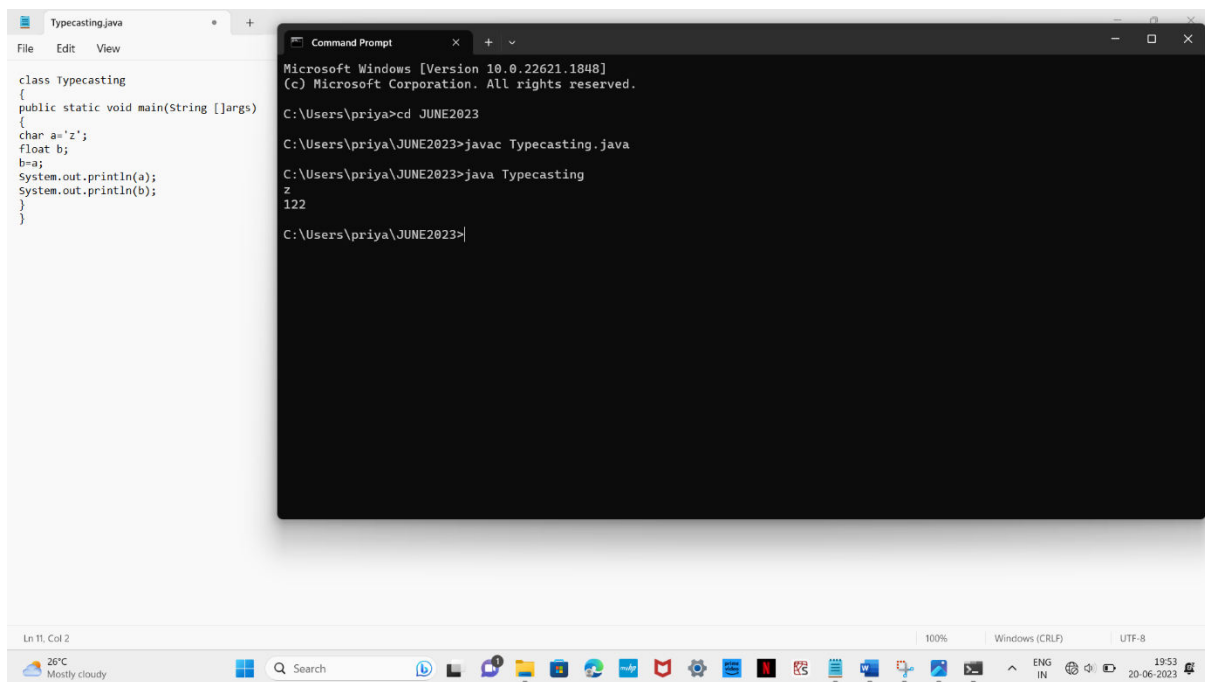
The taskbar at the bottom shows the system clock as 19:52 on 20-06-2023, with a temperature of 26°C and 'Mostly cloudy' weather.

CHAR TO FLOAT:

PROGRAM:

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

Output:



The screenshot displays a Windows desktop environment. On the left, a text editor window titled 'Typecasting.java' shows the following code:

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

On the right, a Command Prompt window shows the execution of the program:

```
Microsoft Windows [Version 10.0.22621.1848]
(c) Microsoft Corporation. All rights reserved.

C:\Users\priya>cd JUNE2023

C:\Users\priya\JUNE2023>javac Typecasting.java

C:\Users\priya\JUNE2023>java Typecasting

z
122

C:\Users\priya\JUNE2023>
```

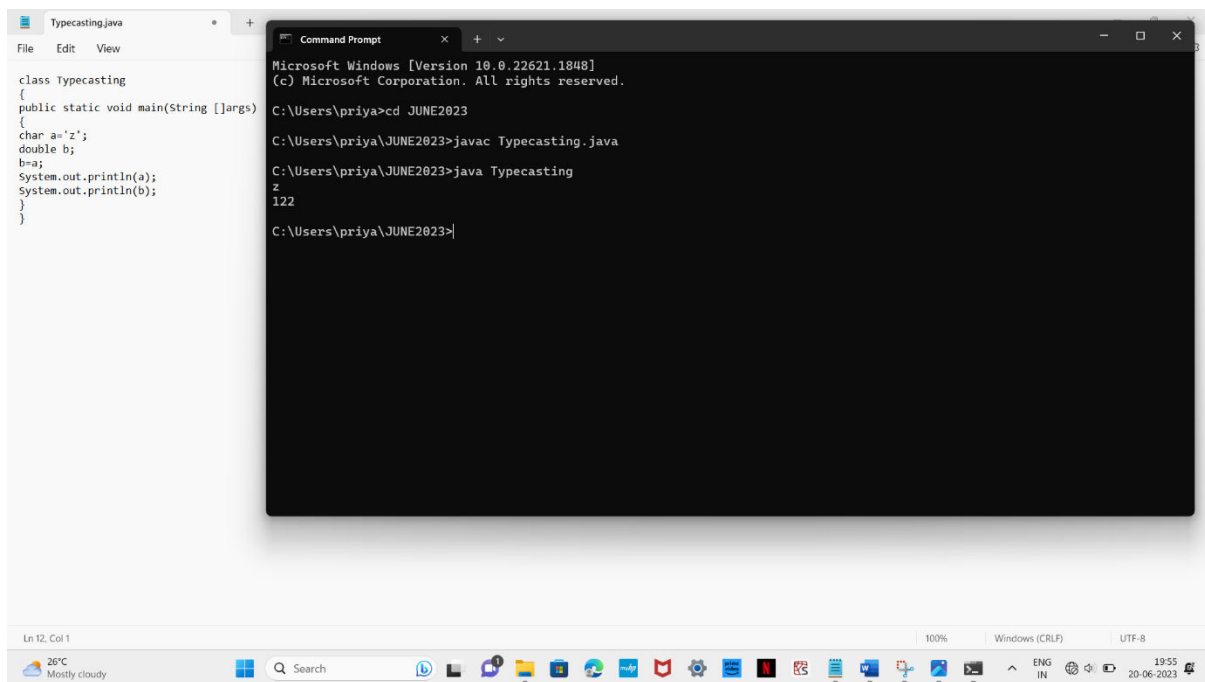
The taskbar at the bottom shows the system clock as 19:53 on 20-06-2023, along with various application icons and a search bar.

CHAR TO DOUBLE:

PROGRAM:

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

Output:



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

```
Microsoft Windows [Version 10.0.22621.1848]
(c) Microsoft Corporation. All rights reserved.

C:\Users\priya>cd JUNE2023

C:\Users\priya\JUNE2023>javac Typecasting.java

C:\Users\priya\JUNE2023>java Typecasting
z
122

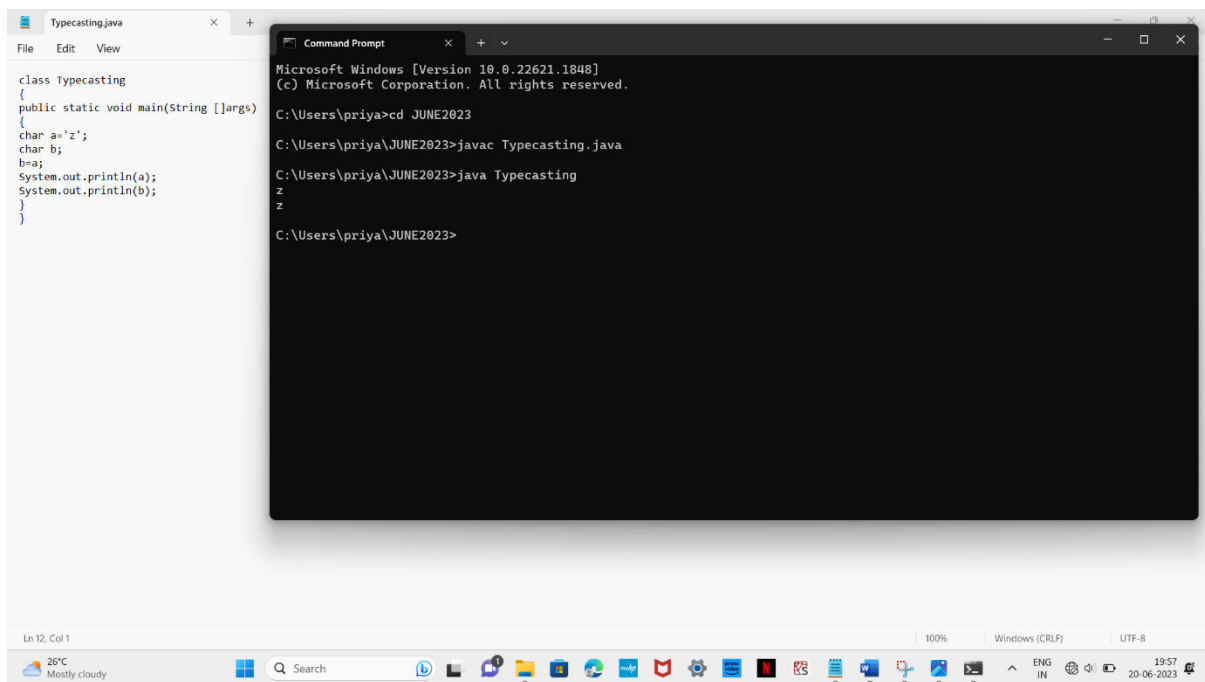
C:\Users\priya\JUNE2023>|
```

CHAR TO CHAR:

PROGRAM:

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


Output:



The screenshot displays a Windows desktop environment. On the left, a text editor window titled 'Typecasting.java' shows the following code:

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

On the right, a 'Command Prompt' window shows the execution steps:

```
Microsoft Windows [Version 10.0.22621.1848]
(c) Microsoft Corporation. All rights reserved.

C:\Users\priya>cd JUNE2023

C:\Users\priya\JUNE2023>javac Typecasting.java

C:\Users\priya\JUNE2023>java Typecasting

z
z

C:\Users\priya\JUNE2023>
```

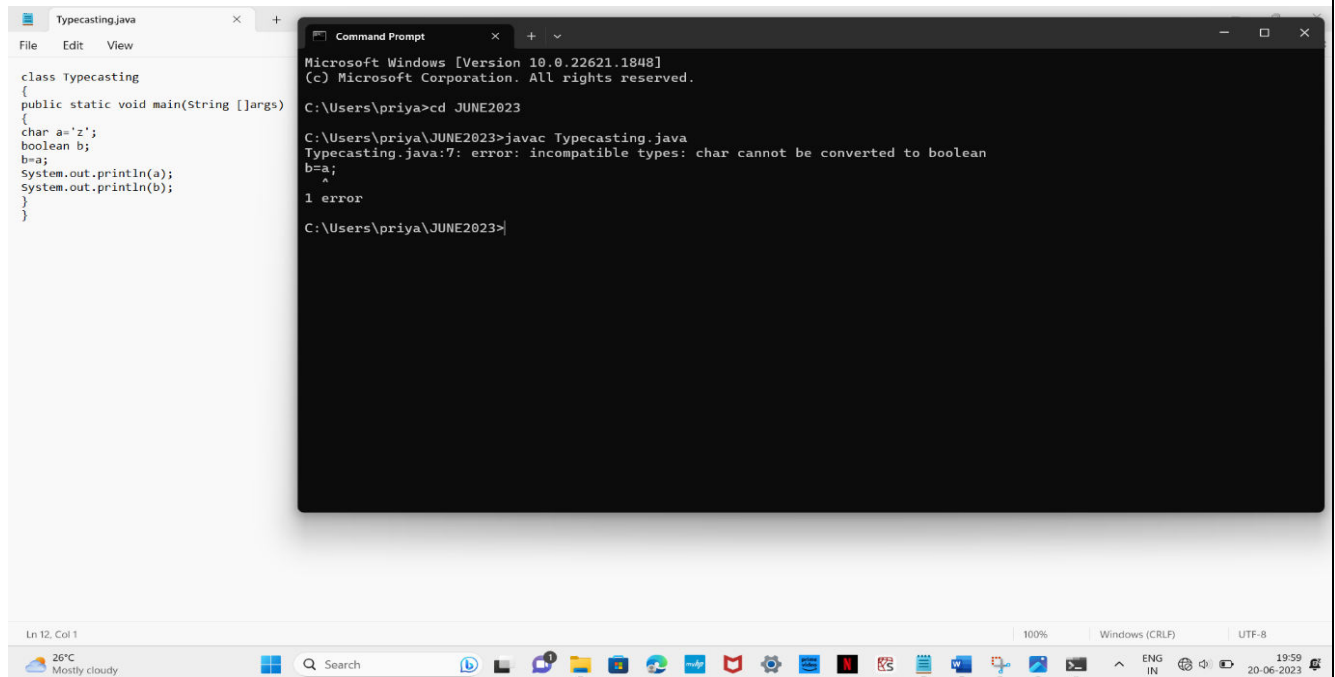
The taskbar at the bottom shows the system clock as 19:57 on 20-06-2023, along with various application icons and a search bar.

CHAR TO BOOLEAN:

PROGRAM:

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

Output:



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

```
Microsoft Windows [Version 10.0.22621.1848]
(c) Microsoft Corporation. All rights reserved.

C:\Users\priya>cd JUNE2023

C:\Users\priya\JUNE2023>javac Typecasting.java
Typecasting.java:7: error: incompatible types: char cannot be converted to boolean
    b=a;
    ^
1 error

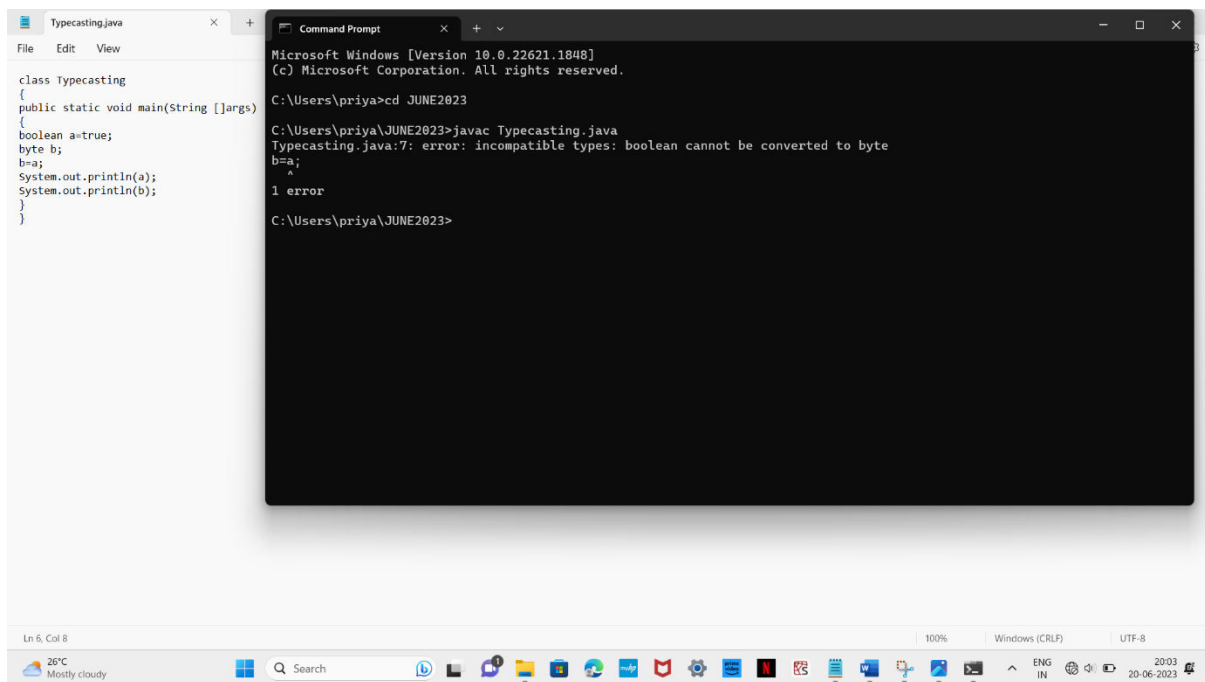
C:\Users\priya\JUNE2023>
```

BOOLEAN TO BYTE:

PROGRAM:

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

Output:



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

```
Microsoft Windows [Version 10.0.22621.1848]
(c) Microsoft Corporation. All rights reserved.

C:\Users\priya>cd JUNE2023

C:\Users\priya\JUNE2023>javac Typecasting.java
Typecasting.java:7: error: incompatible types: boolean cannot be converted to byte
    b=a;
      ^
1 error

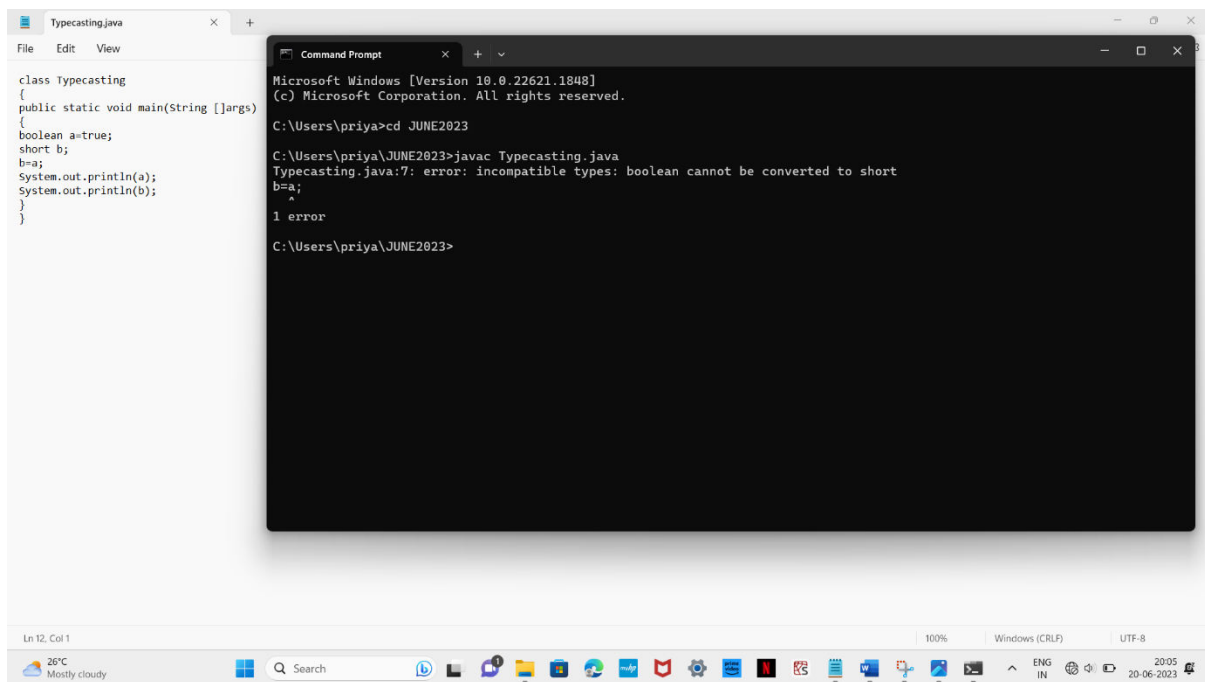
C:\Users\priya\JUNE2023>
```

BOOLEAN TO SHORT:

PROGRAM:

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

Output:



The screenshot shows a Java IDE window titled 'Typecasting.java' with the following code:

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

Overlaid on the IDE is a Windows Command Prompt window. It shows the user navigating to the directory 'C:\Users\priya\JUNE2023' and attempting to compile the file with 'javac Typecasting.java'. The output shows a compilation error: 'Typecasting.java:7: error: incompatible types: boolean cannot be converted to short b=a; 1 error'.

```
Microsoft Windows [Version 10.0.22621.1848]
(c) Microsoft Corporation. All rights reserved.

C:\Users\priya>cd JUNE2023

C:\Users\priya\JUNE2023>javac Typecasting.java
Typecasting.java:7: error: incompatible types: boolean cannot be converted to short
    b=a;
    ^
1 error

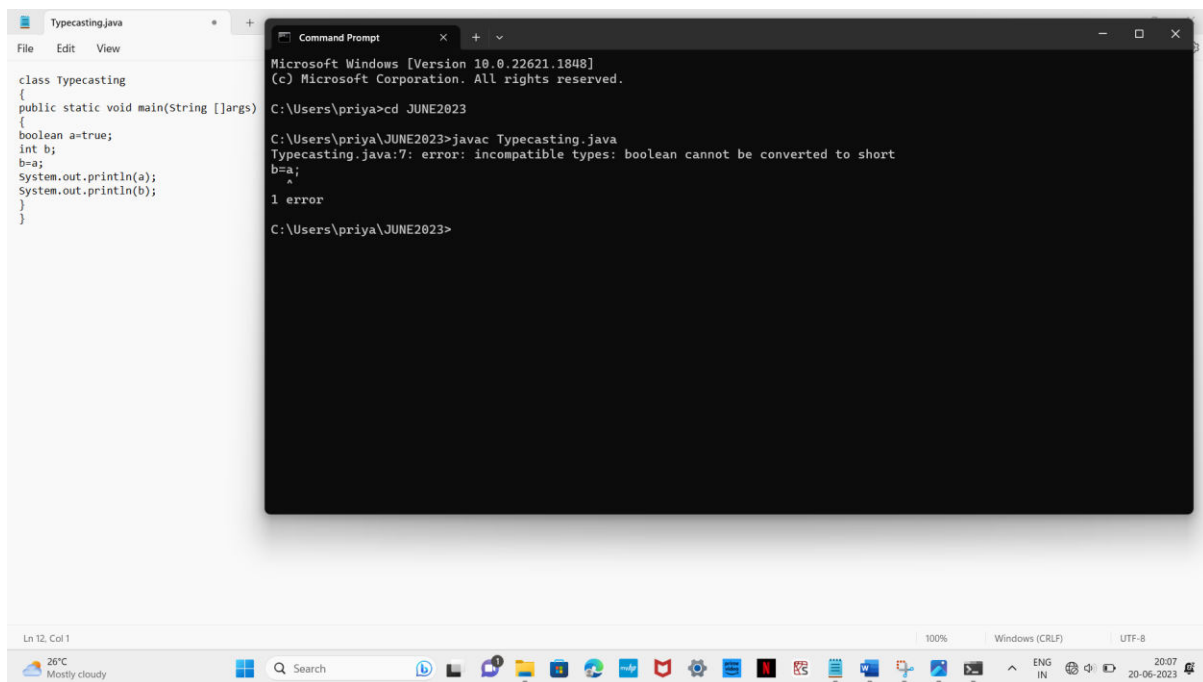
C:\Users\priya\JUNE2023>
```

BOOLEAN TO INT:

PROGRAM:

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

Output:



The screenshot shows a Java IDE window titled 'Typecasting.java' with the following code:

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

Overlaid on the IDE is a 'Command Prompt' window showing the following commands and output:

```
Microsoft Windows [Version 10.0.22621.1848]
(c) Microsoft Corporation. All rights reserved.

C:\Users\priya>cd JUNE2023

C:\Users\priya\JUNE2023>javac Typecasting.java
Typecasting.java:7: error: incompatible types: boolean cannot be converted to short
    b=a;
    ^
1 error

C:\Users\priya\JUNE2023>
```

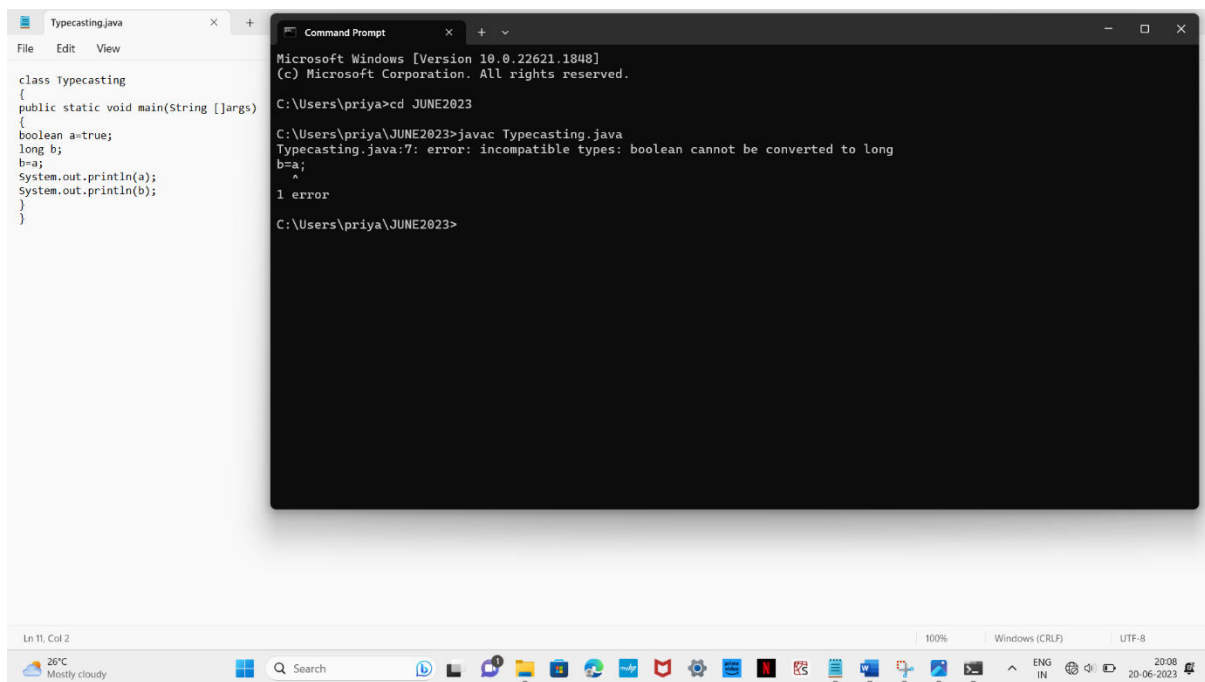
The error message indicates that the boolean variable 'a' cannot be assigned to the short variable 'b'.

BOOLEAN TO LONG:

PROGRAM:

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

Output:



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

```
Microsoft Windows [Version 10.0.22621.1848]
(c) Microsoft Corporation. All rights reserved.

C:\Users\priya>cd JUNE2023

C:\Users\priya\JUNE2023>javac Typecasting.java
Typecasting.java:7: error: incompatible types: boolean cannot be converted to long
        b=a;
        ^
1 error

C:\Users\priya\JUNE2023>
```

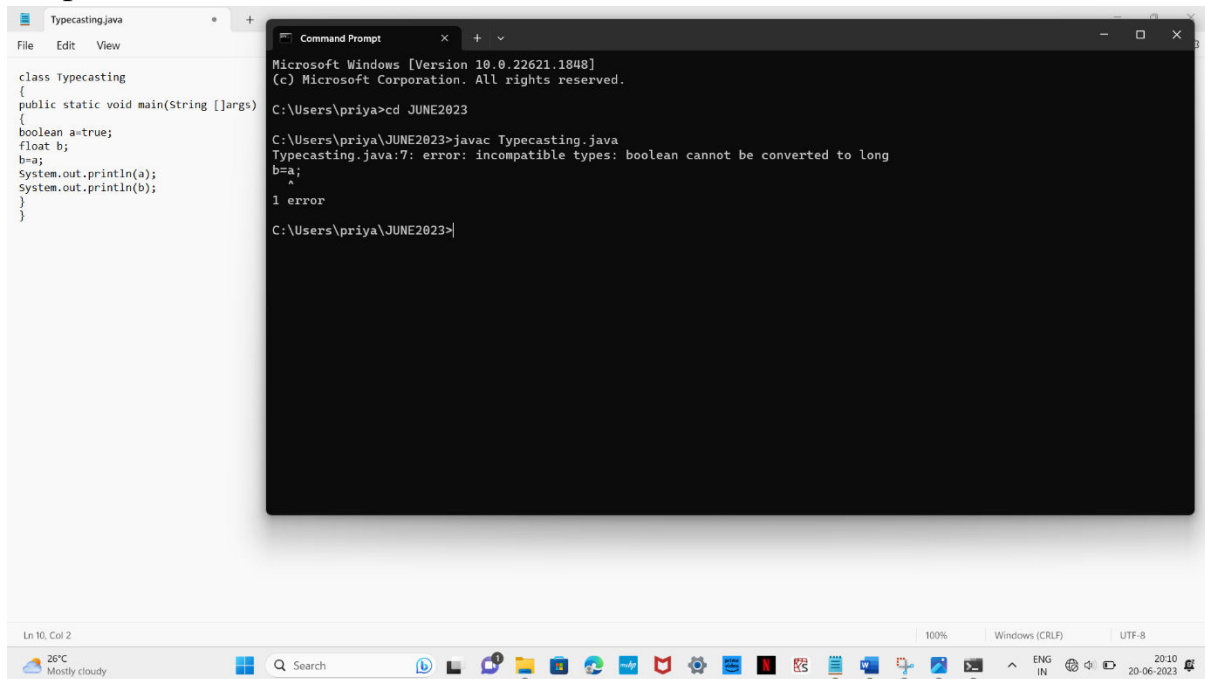
BOOLEAN TO FLOAT:

PROGRAM:

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

```
}
```

Output:



The screenshot shows a Java IDE window titled 'Typecasting.java' with the following code:

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

Overlaid on the IDE is a Windows Command Prompt window. It shows the user navigating to the directory 'C:\Users\priya\JUNE2023' and attempting to compile the file with 'javac Typecasting.java'. The command prompt displays the following error message:

```
Typecasting.java:7: error: incompatible types: boolean cannot be converted to long
    b=a;
    ^
1 error
```

The Windows taskbar at the bottom shows the date as 20-06-2023 and the time as 20:10.

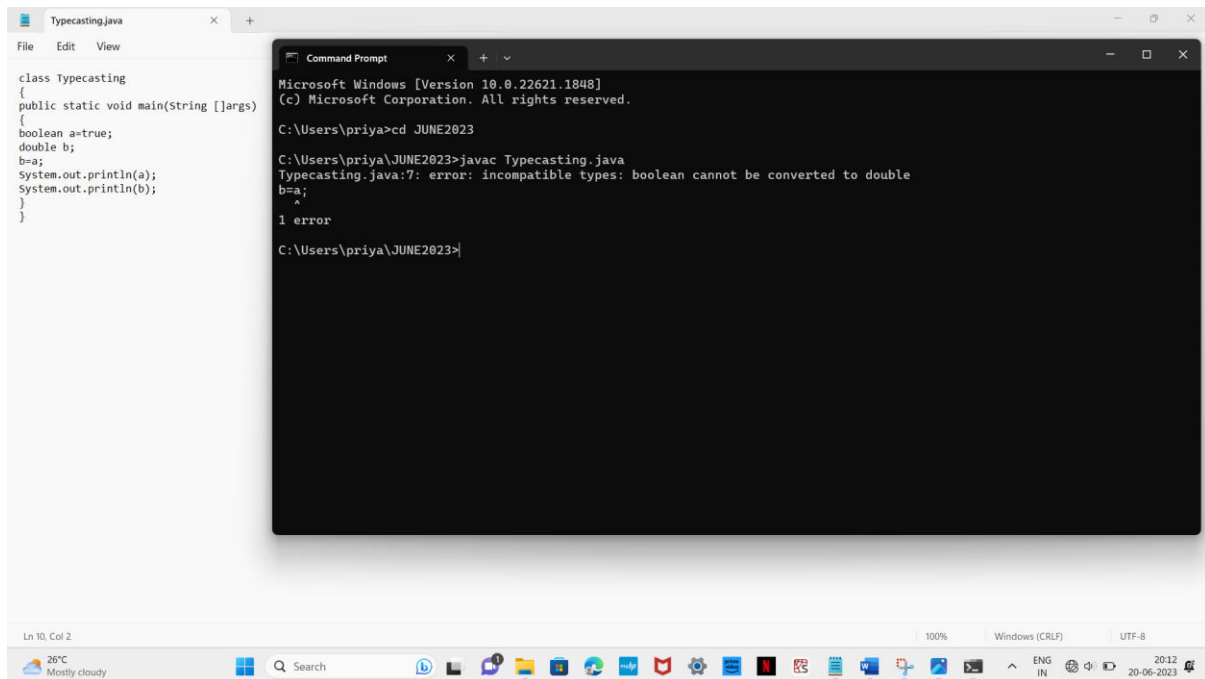
BOOLEAN TO DOUBLE:

PROGRAM:

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

```
}
```

Output:



The screenshot shows a Java IDE window titled 'Typecasting.java' with the following code:

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

Overlaid on the IDE is a 'Command Prompt' window showing the execution of the Java compiler:

```
Microsoft Windows [Version 10.0.22621.1848]
(c) Microsoft Corporation. All rights reserved.

C:\Users\priya>cd JUNE2023

C:\Users\priya\JUNE2023>javac Typecasting.java
Typecasting.java:7: error: incompatible types: boolean cannot be converted to double
    b=a;
    ^
1 error

C:\Users\priya\JUNE2023>
```

The error message indicates that the variable 'b' is declared as a 'double' but is being assigned a 'boolean' value 'a'.

BOOLEAN TO CHAR:

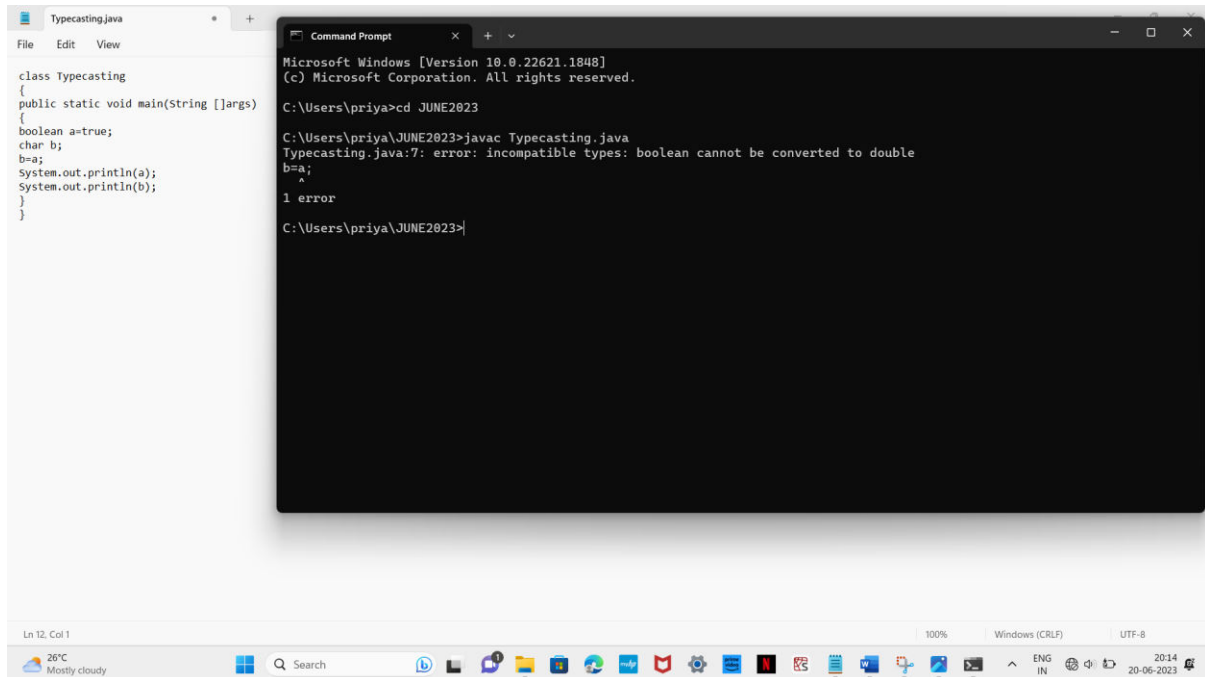
PROGRAM:

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



```
}
```

Output:



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

```
Microsoft Windows [Version 10.0.22621.1848]
(c) Microsoft Corporation. All rights reserved.

C:\Users\priya>cd JUNE2023

C:\Users\priya\JUNE2023>javac Typecasting.java
Typecasting.java:7: error: incompatible types: boolean cannot be converted to double
    b=a;
    ^
1 error

C:\Users\priya\JUNE2023>
```

BOOLEAN TO BOOLEAN:

PROGRAM:

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