ASSIGNMENT ON TYPE	E CASTING
Sub	mitted by HIBA N A2 Batch
Su	bmitted to PUNITH SIR

TYPE CASTING:

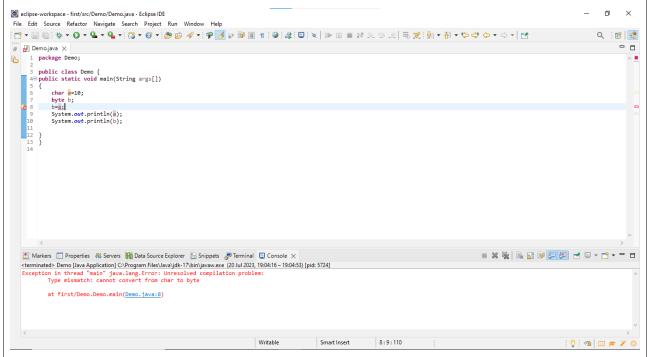
Type casting is a way of converting data from one data type to another data type.

There are two types of type casting:

- Widening Type Casting.
- Narrowing Type Casting.

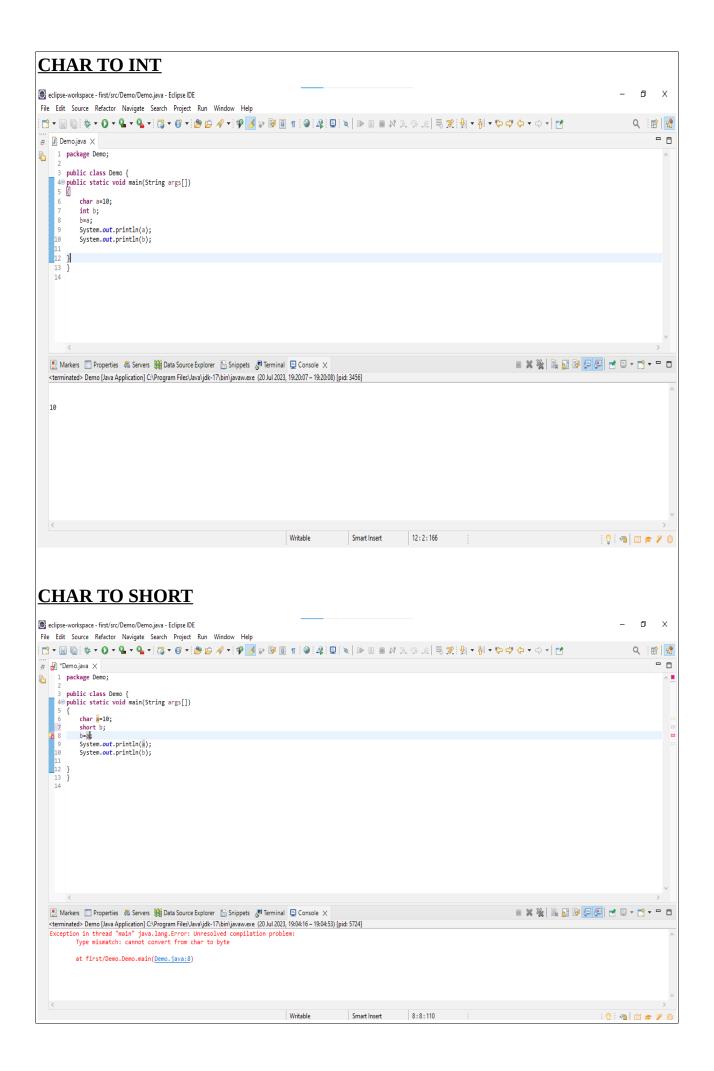
CHAR SECTION

CHAR TO BYTE



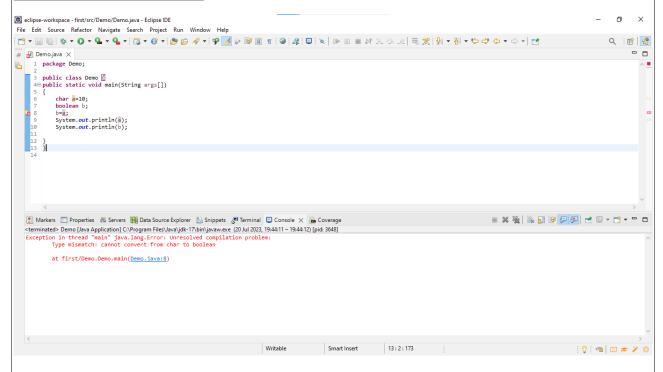
CONCLUSION:

Error because from char to byte explicit conversion should done.



Error because from char to byte explicit conversion is done.

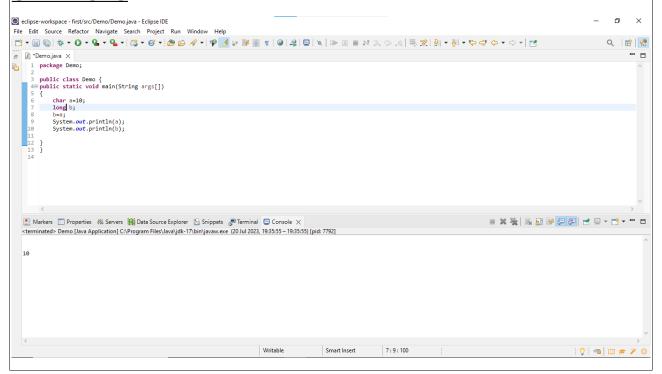
CHAR TO BOOLEAN:



CONCLUSION:

Error because no automatic conversion is supported from char to boolean.

CHAR-LONG



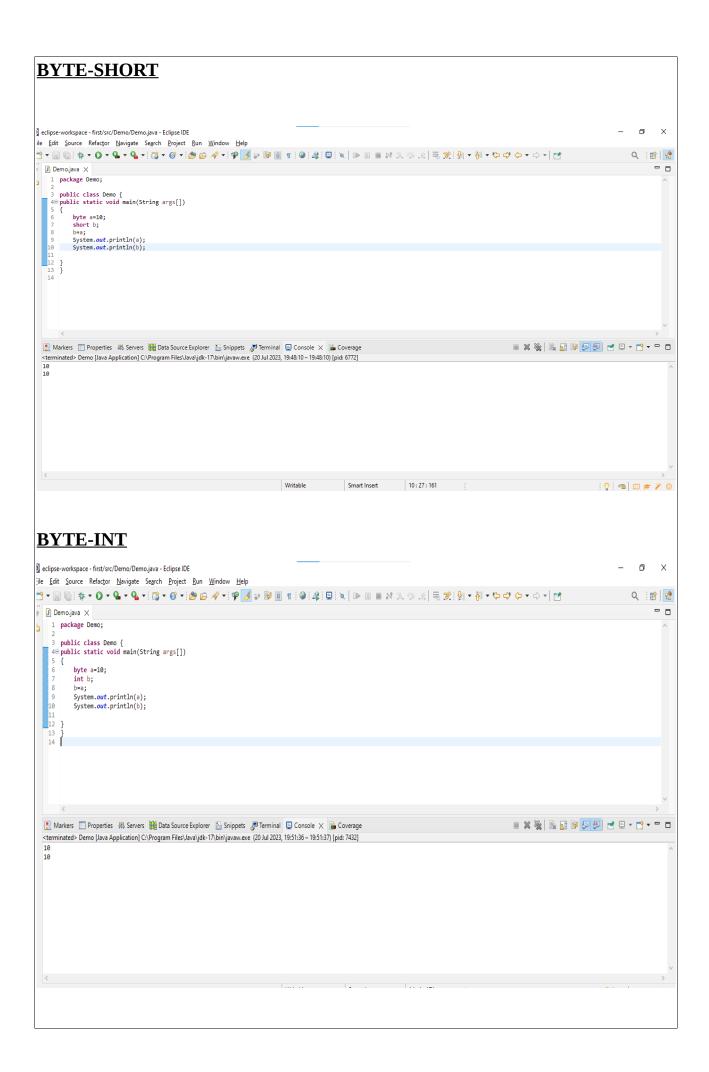
BYTE SECTION

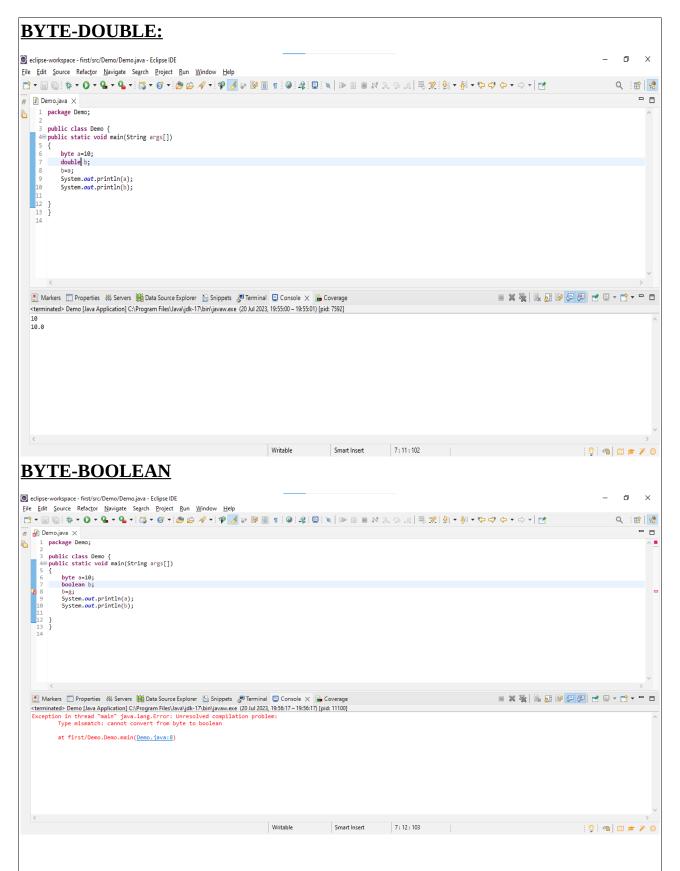
BYTE TO CHAR

```
geclipse-workspace - first/src/Demo/Demo.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
  | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | **
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Q 🔡 😭
 🗗 🔬 Demo.java 🗶
1 package Demo;
         3 public class Demo [
4⊖ public static void main(String args[])
                                     char b;
                                     b=a;
                                     System.out.println(a);
                                     System.out.println(b);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   🖳 Markers 🔲 Properties 🚜 Servers 🛍 Data Source Explorer 🔓 Snippets 🧬 Terminal 💂 Console 🗶 🔓 Coverage
        <terminated> Demo [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20 Jul 2023, 19:46:31 – 19:46:32) [pid: 2248]
        Exception in thread "main" java.lang.Error: Unresolved compilation problem:
                                  Type mismatch: cannot convert from byte to char
                                 at first/Demo.Demo.main(<u>Demo.java:8</u>)
                                                                                                                                                                                                                                             Writable
                                                                                                                                                                                                                                                                                                                                                            13:2:170
```

CONCLUSION:

Error because from byte to char explicit conversion is done.

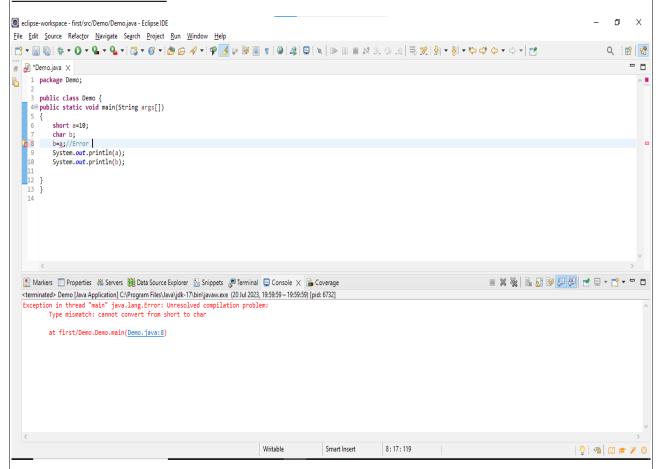




Error because no automatic conversion from byte to boolean.

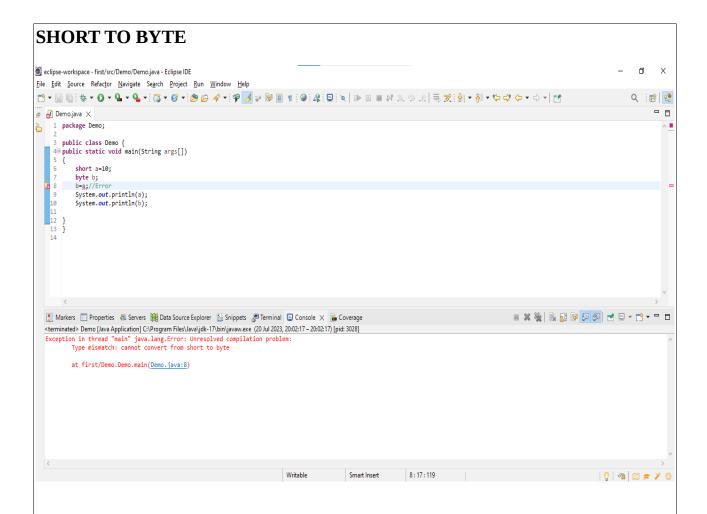
SHORT SECTION

SHORT TO CHAR



CONCLUSION

Error because from short to char explicit conversion should done.



Error because from short to byte explicit conversion should done.

SHORT-FLOAT:

```
SHORT-BOOLEAN

Selpse-workspace - first/aro Demo Demo, year - Edops DE

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The fath Source Bedgare Manigate Search Project Bun Window Help

The package Demo;

Japackage Demo;

Shabilic class Demo (

Apublic class Demo (

Apublic static void main (string args! [))

Self Short alle;

System.our.println(s);

System.our.println(s);

System.our.println(s);

Mankers | Properties #8 Servers | Data Source Explorer | Snippets #8 Teminal | Console × | Coverage

**Leminated Demo [lawa Application] (Chiropam Helpikansjaki Thibnijaswance (20 lal 2022, 20 lo 5.3) [pid 1228]

Exception in Interd main figure, and, from timescale compilation probless:

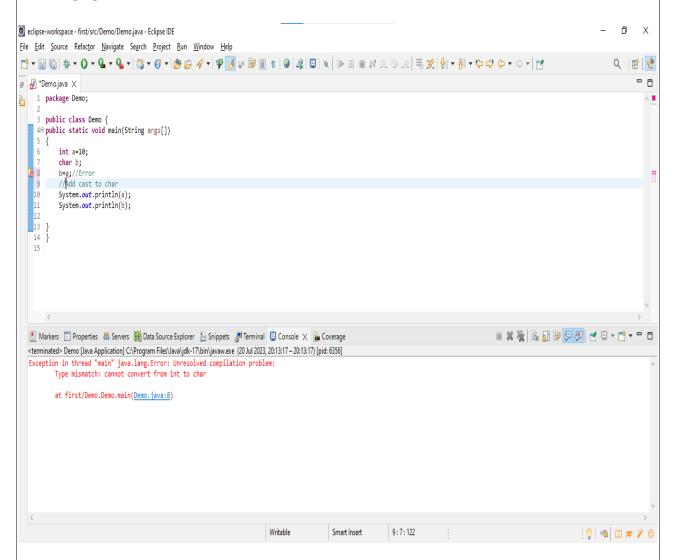
Type missatch: cannot convert from short to boolean

at first/Demo.Demo.main((1900_1 janus))
```

Error because no automatic conversion is done from short to boolean.

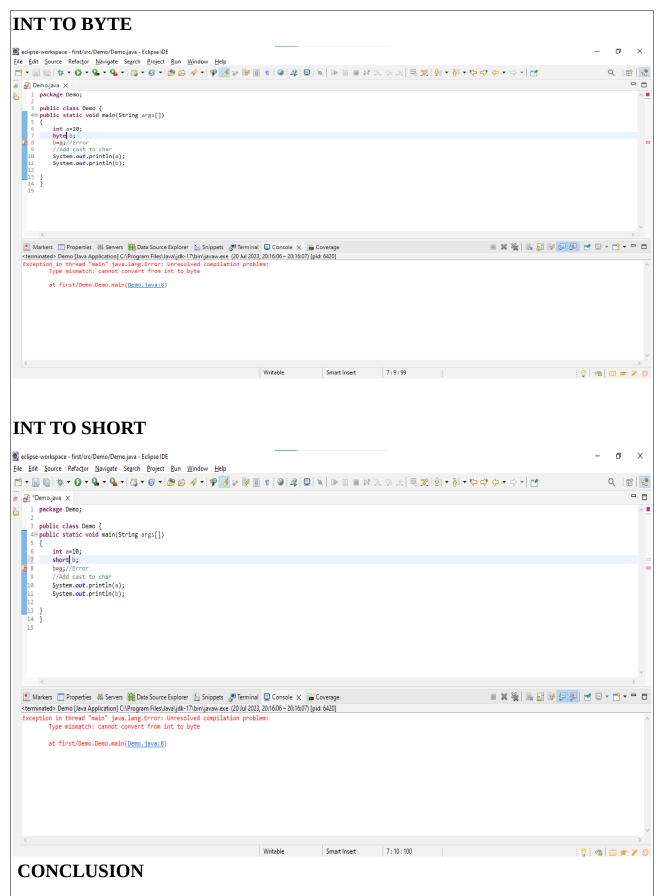
INT SECTION

INT TO CHAR

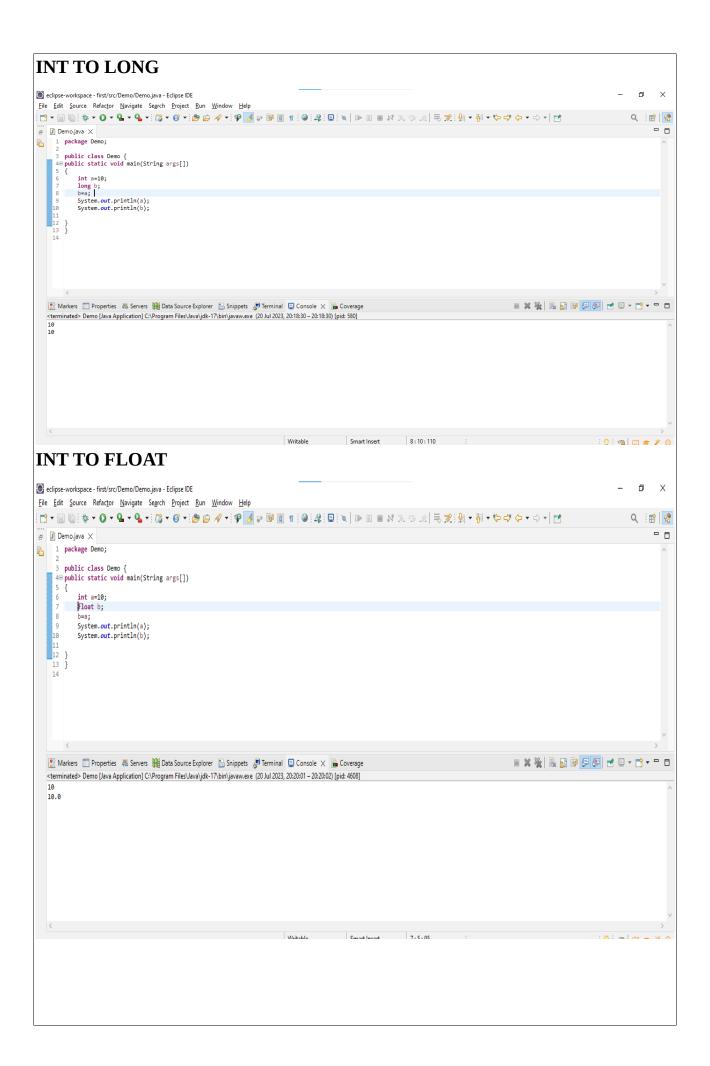


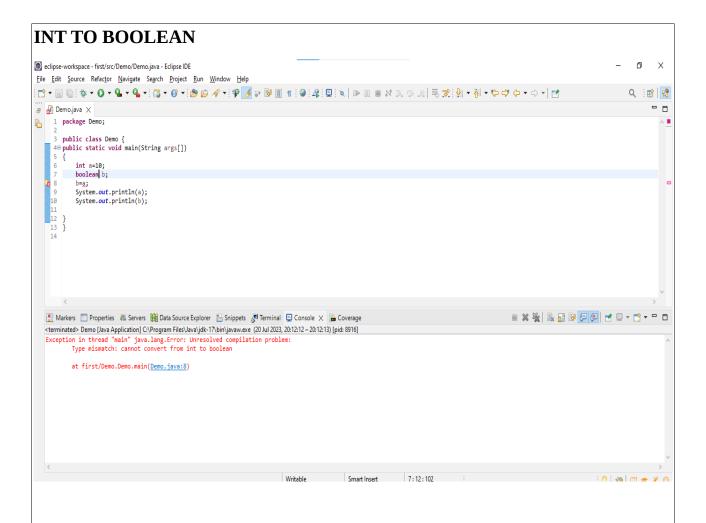
CONCLUSION

Error because from int to char explicit conversion should done.



Error because from int to short explicit conversion should done.

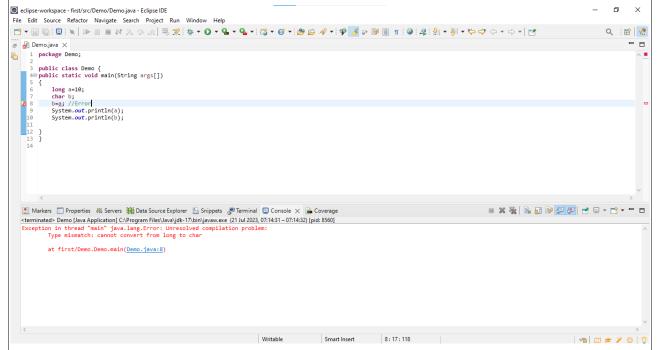




Error because no automatic conversion done from int to boolean.

LONG SECTION

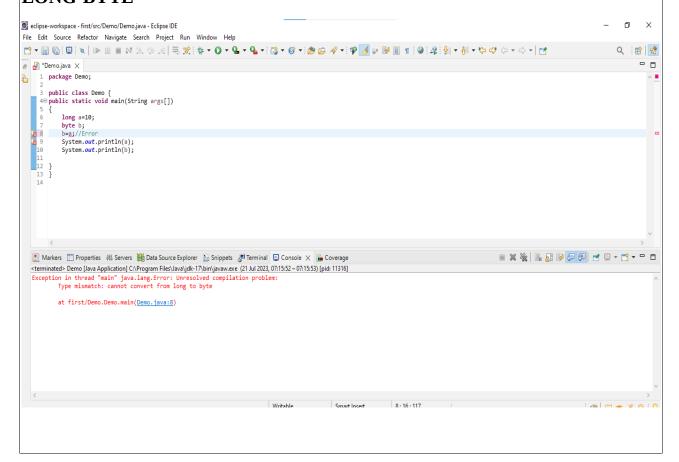
LONG-CHAR

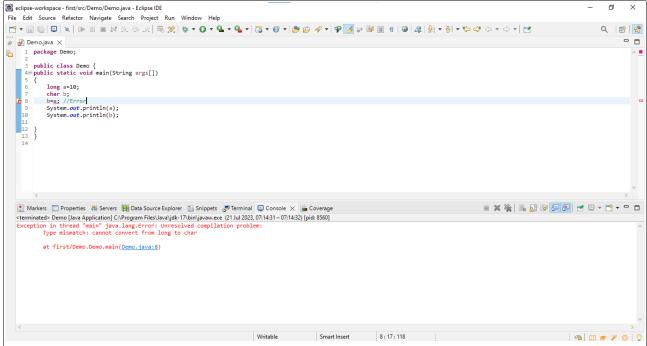


CONCLUSION

Error because from long to char explicit conversion should done.

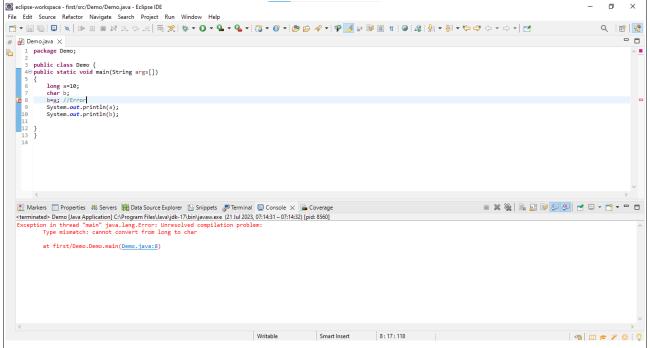
LONG-BYTE





Error because from long to byte explicit conversion should done.

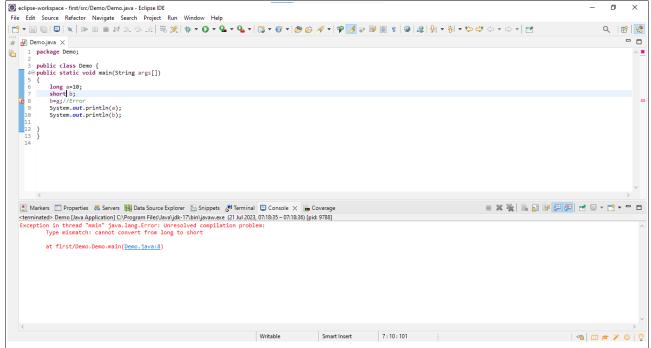
LONG-SHORT



CONCLUSION

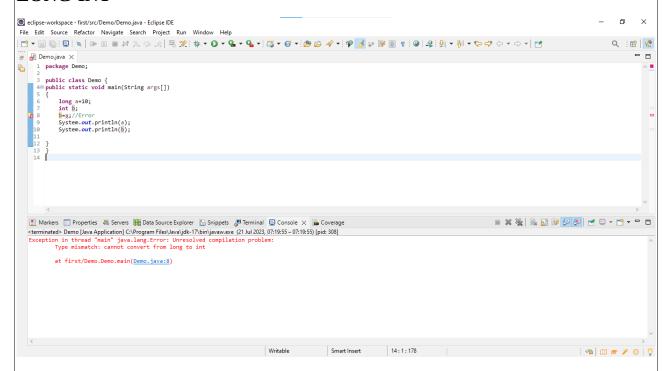
Error because from long to chare explicit conversion should done.

LONG-SHORT



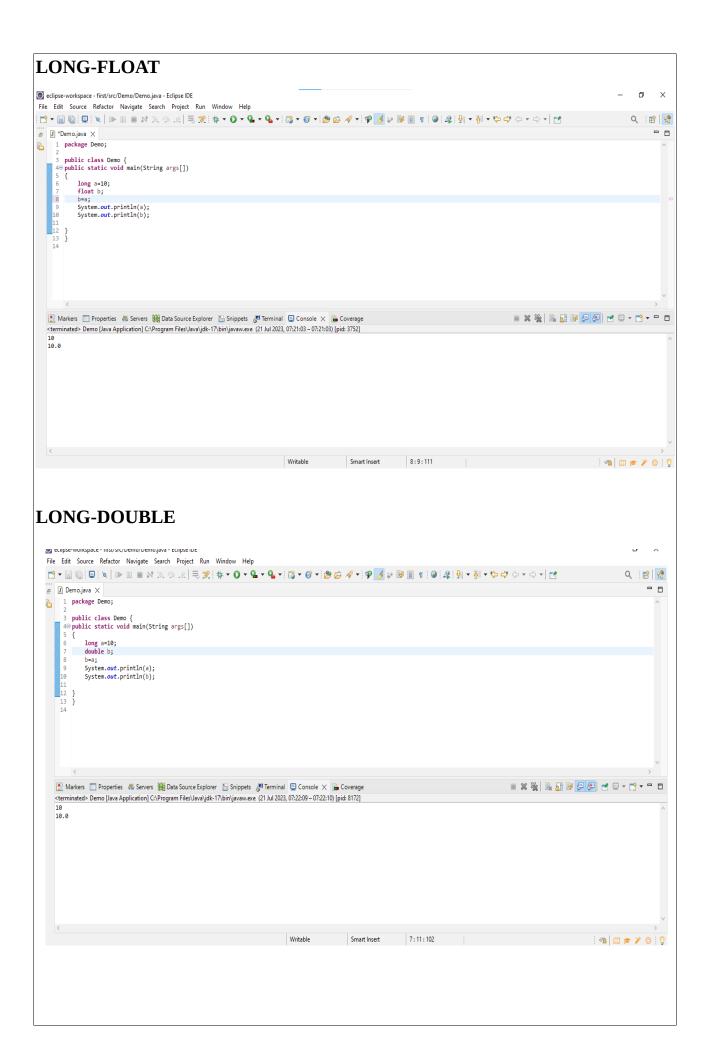
Error because from long to short explicit conversion should done.

LONG-INT



CONCLUSION

Error because from long to int explicit conversion should done.



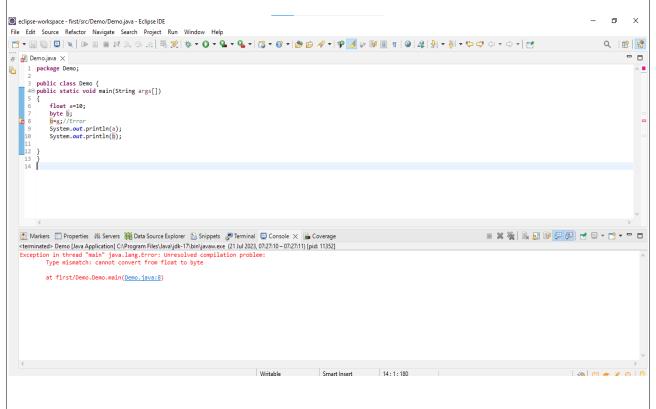
FLOAT SECTION

FLOAT-CHAR

CONCLUSION

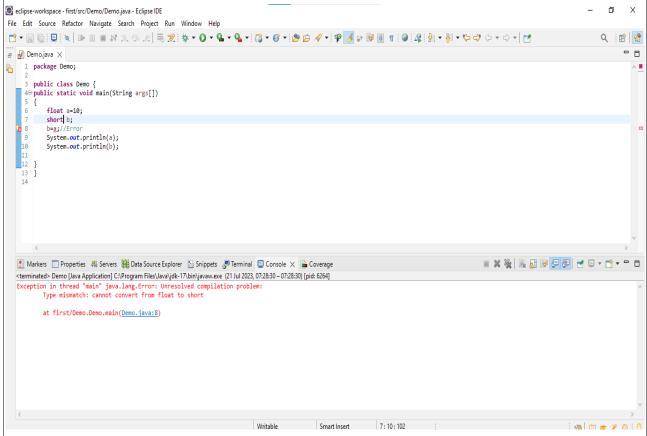
Error from float to char explicit conversion should done.

FLOAT-BYTE



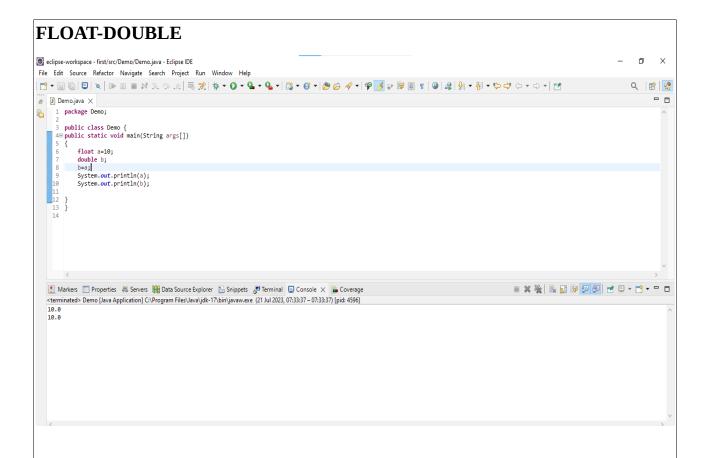
Error because from float to byte explicit conversion should done.

FLOAT-SHORT



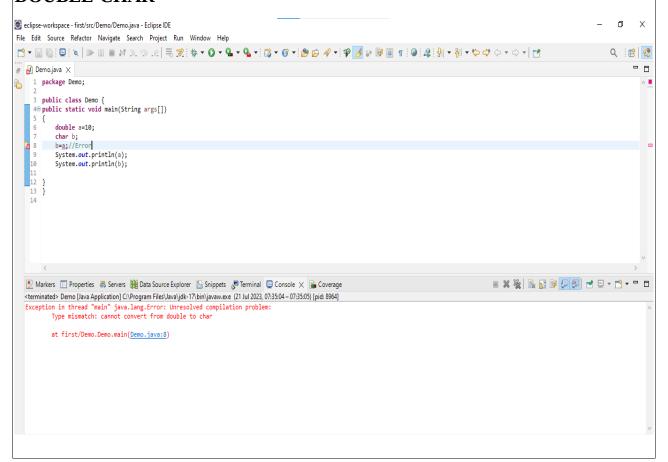
CONCLUSION

Error because float to short explicit conversion should done.



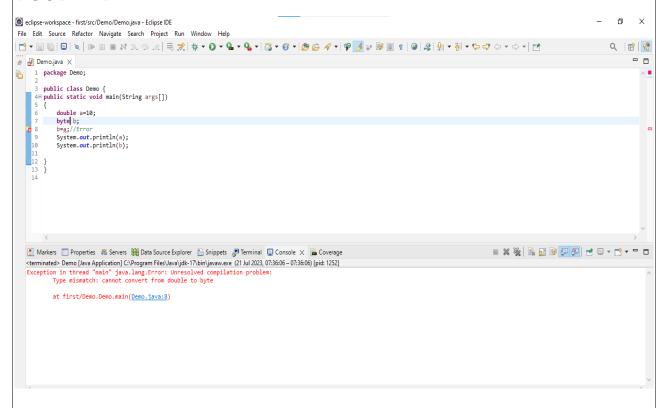
DOUBLE SECTION

DOUBLE-CHAR

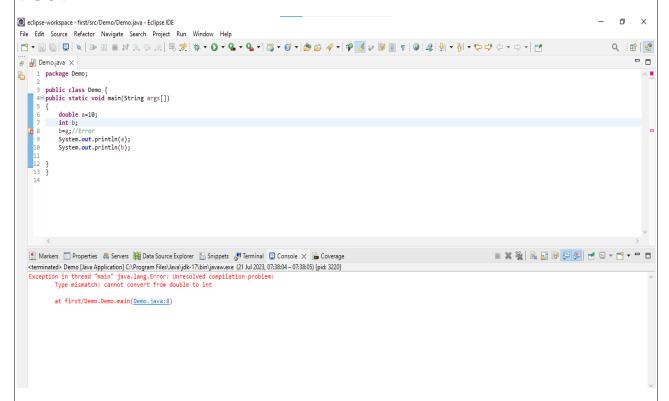


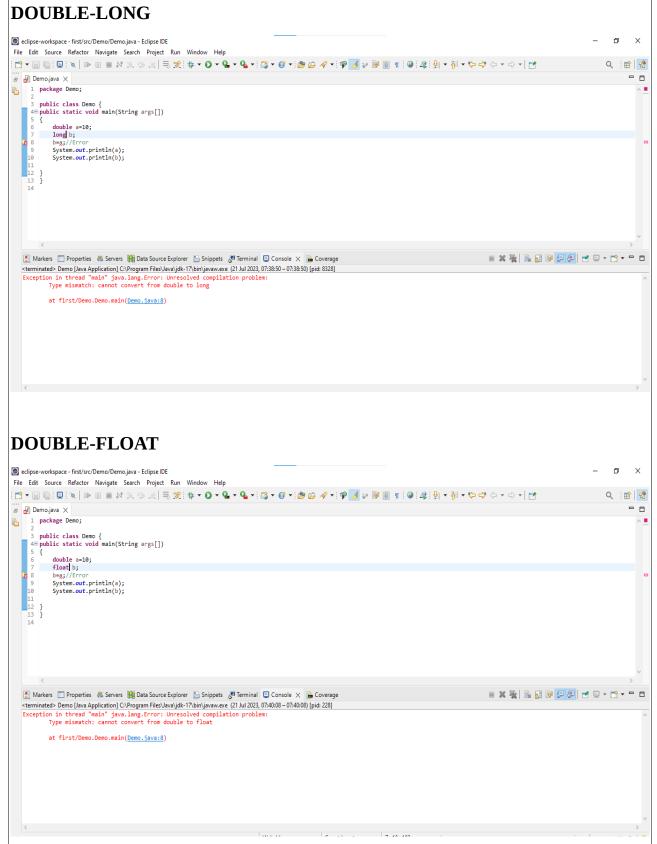
Error because from double to char explicit conversion should done.

DOUBLE-BYTE

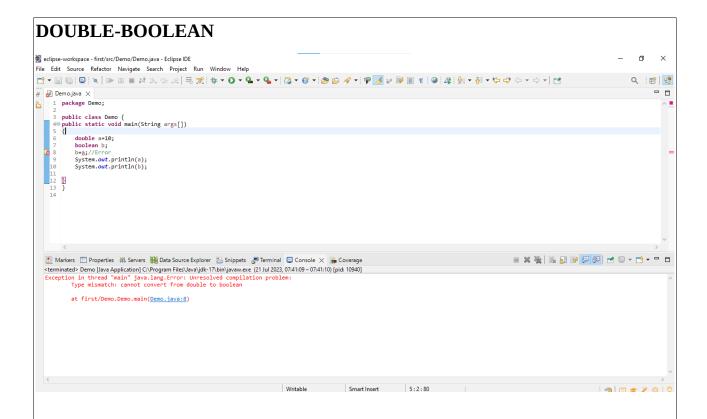


DOUBLE-INT





Error from double to float explicit conversion should done.



Error because no automatic conversion from double to boolean.

BOOLEAN SECTION

A boolean cannot be converted to any other data type.

Example:

```
See clipse-workspace - first/orc/Demo/Demo/pva - Eclipse DE
File Edit Source Refactor Navigate Search Project Rum Window Help

The Carlot Source Refactor Navigate Search Project Rum Window Help

Demo/pva X

Dem
```

TYPE CASTING CHART

	char	byte	short	1nt	long	float	double	boolean
char	NCR	EC	EC	IC	IC	IC	IC	×
byte	E C	NCR	1c	IC	IC	IC	Ic	X
Shone	EC	EC	NCR	IC	IC	IC	IC	×
int	EC	EC	EC	NCR	IC	10	IC	×
long	FC	EC	EC	EC	NCR	IL	IC	X
float	EC	EC	EC	EC	EC	NCR	IC	*
double	EC	EC	EC	EC	EC	EC	NCR	X
poolean	X	X	X	×	X Mark	×	X	NCR

NCR- No conversion required

EC- Explicit conversion

IC- Implicit conversion

X- Conversion not possible

