DATA TYPECASTING IN JAVA

1) char to char typecasting

```
CharToChar - Notepad                                    —    □    ×
File  Edit  Format  View  Help
class CharToChar{
        public static void main(String []args){
                char var1 = 'a';
                char var2;
                var2 = var1;
                System.out.println("Char: "+var1);
                System.out.println("Char: "+var2);
        }
}
                        Ln 9, Col 2      100%   Windows (CRLF)   UTF-8
```
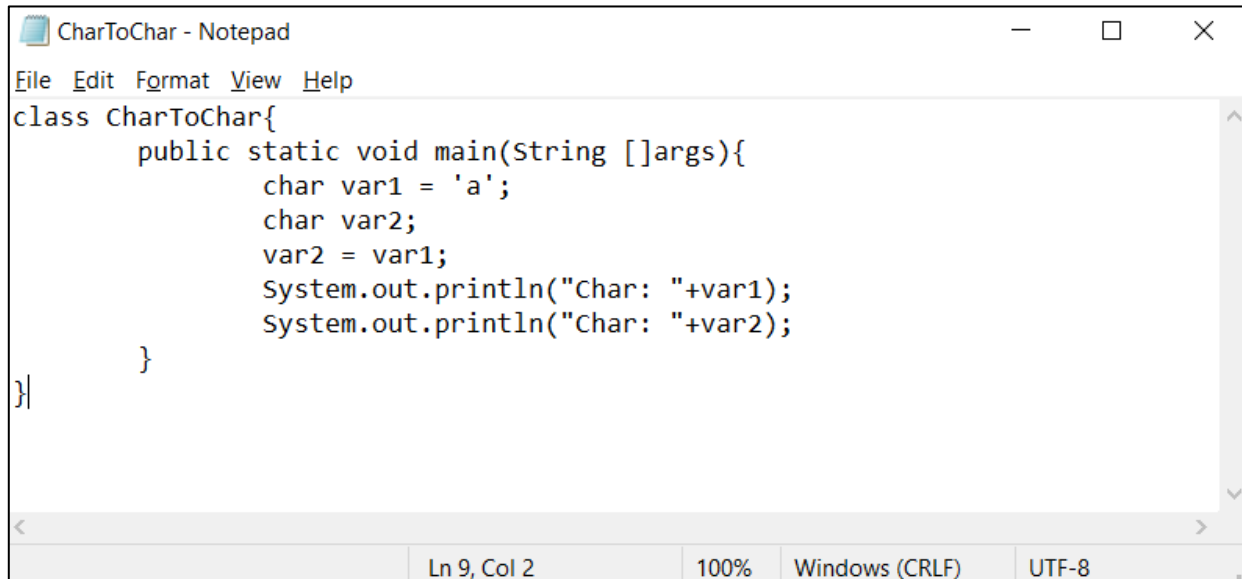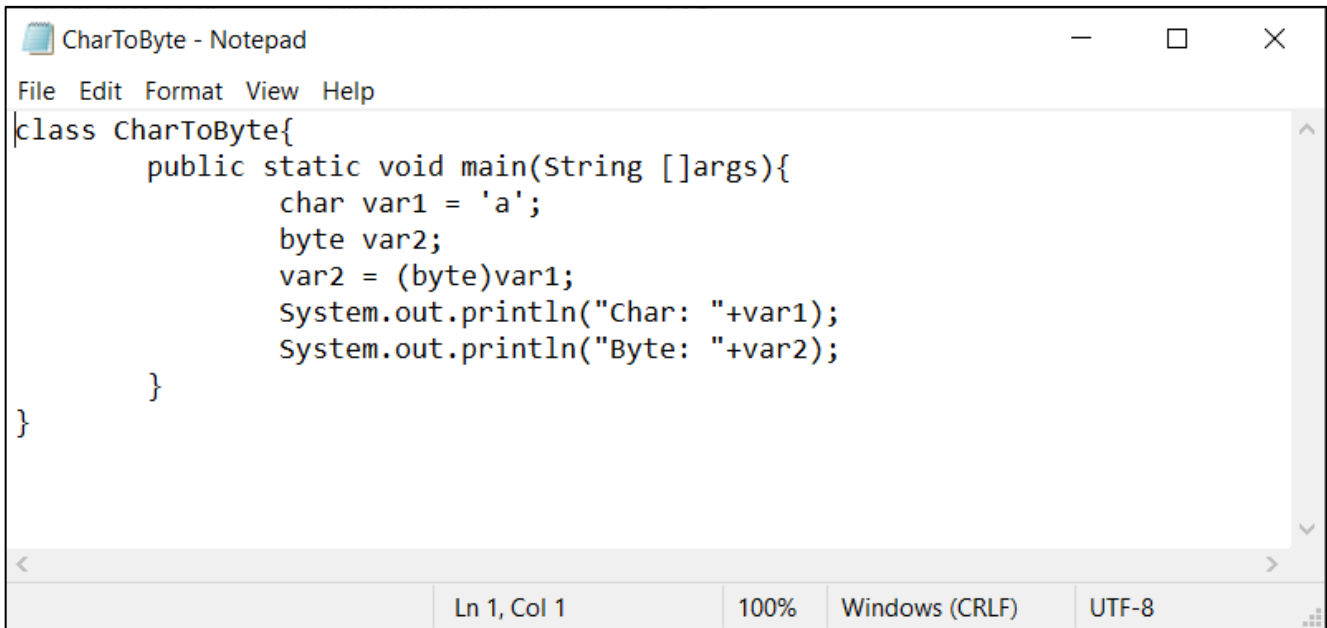
```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion>javac CharToChar.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion>java CharToChar
Char: a
Char: a

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion>
```

No Typecasting is required

2) char to byte typecasting

```
CharToByte - Notepad
File  Edit  Format  View  Help
class CharToByte{
        public static void main(String []args){
                char var1 = 'a';
                byte var2;
                var2 = (byte)var1;
                System.out.println("Char: "+var1);
                System.out.println("Byte: "+var2);
        }
}
```
```
Ln 1, Col 1    100%    Windows (CRLF)    UTF-8
```

```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac CharToByte.java
CharToByte.java:5: error: incompatible types: possible lossy conversion from char to byte
                var2 = var1;
                       ^
1 error

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac CharToByte.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java CharToByte
Char: a
Byte: 97
```
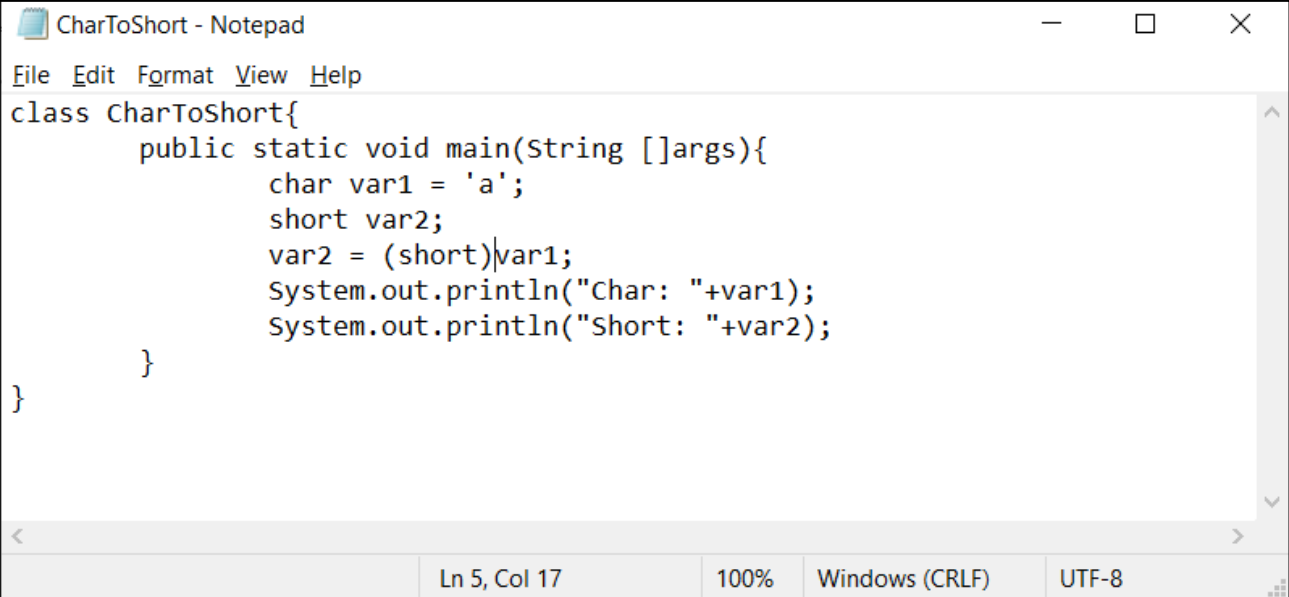
Typecasting is possible

It is explicit typecasting

3) char to short typecasting

```
CharToShort - Notepad                                    —    □    ×
File  Edit  Format  View  Help
class CharToShort{
        public static void main(String []args){
                char var1 = 'a';
                short var2;
                var2 = (short)var1;
                System.out.println("Char: "+var1);
                System.out.println("Short: "+var2);
        }
}
                    Ln 5, Col 17      100%   Windows (CRLF)    UTF-8
```

```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac CharToShort.java
CharToShort.java:5: error: incompatible types: possible lossy conversion from char to short
                var2 = var1;
                       ^
1 error

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac CharToShort.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java CharToShort
Char: a
Short: 97
```
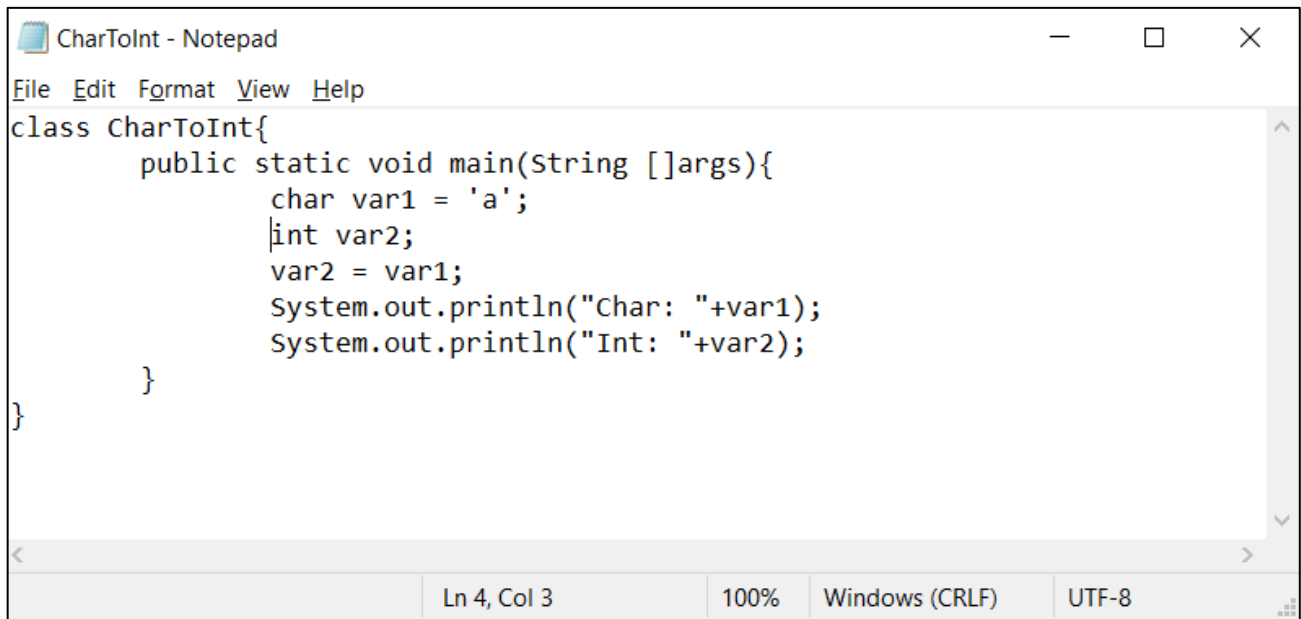
Typecasting is possible

It is explicit typecasting

4) char to int typecasting

```
CharToInt - Notepad                                          —    □    ✕
File  Edit  Format  View  Help
class CharToInt{
        public static void main(String []args){
                char var1 = 'a';
                int var2;
                var2 = var1;
                System.out.println("Char: "+var1);
                System.out.println("Int: "+var2);
        }
}
                              Ln 4, Col 3    100%    Windows (CRLF)    UTF-8
```
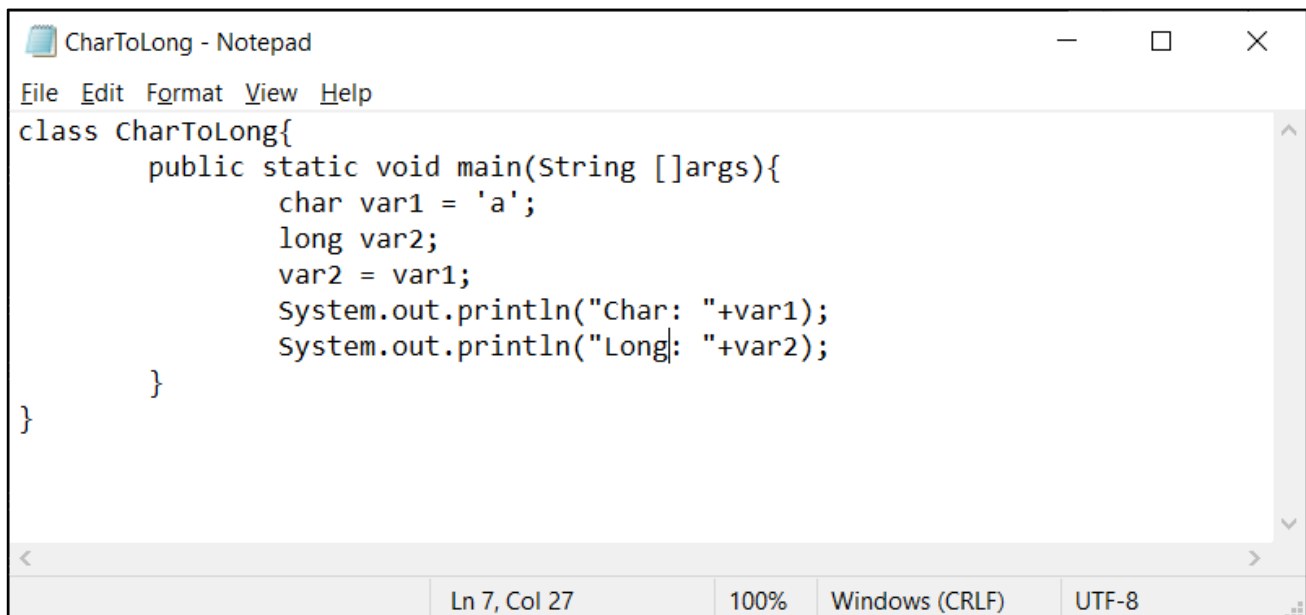
```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac CharToInt.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java CharToInt
Char: a
Int: 97
```

Typecasting is possible

It is implicit typecasting

5) char to long typecasting

```
CharToLong - Notepad                                          —    □    ×
File  Edit  Format  View  Help
class CharToLong{
        public static void main(String []args){
                char var1 = 'a';
                long var2;
                var2 = var1;
                System.out.println("Char: "+var1);
                System.out.println("Long: "+var2);
        }
}

                    Ln 7, Col 27        100%    Windows (CRLF)    UTF-8
```
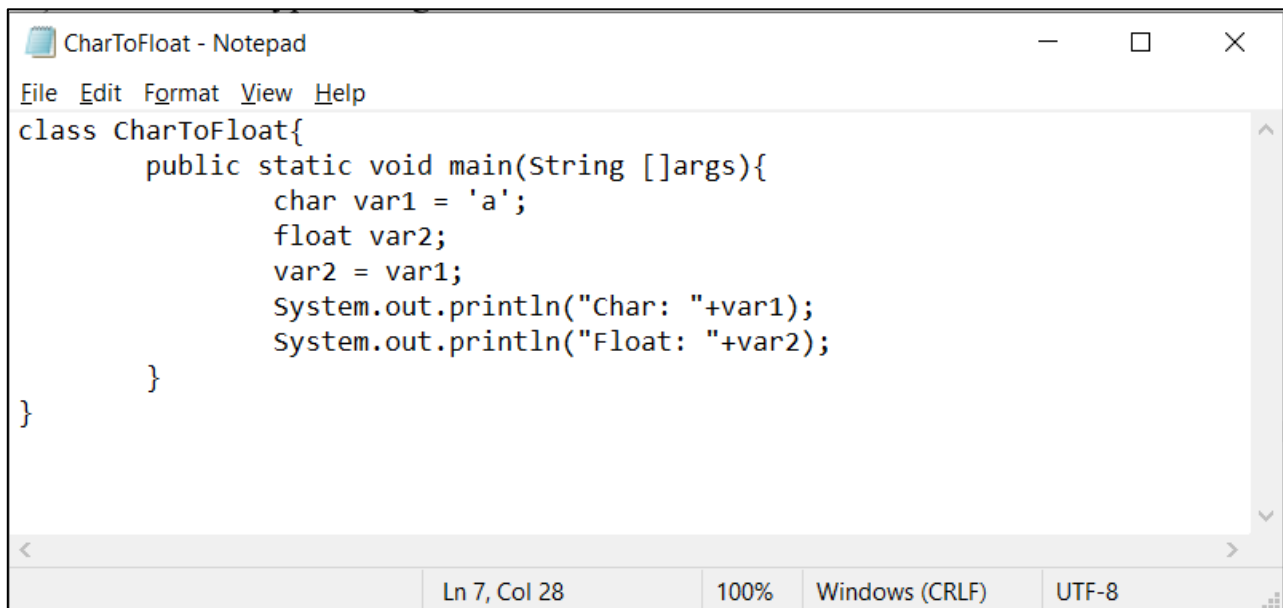
```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac CharToLong.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java CharToLong
Char: a
Long: 97
```

Typecasting is possible

It is implicit typecasting

6) char to float typecasting

```
CharToFloat - Notepad                                      —    □    ×
File  Edit  Format  View  Help
class CharToFloat{
        public static void main(String []args){
                char var1 = 'a';
                float var2;
                var2 = var1;
                System.out.println("Char: "+var1);
                System.out.println("Float: "+var2);
        }
}
                            Ln 7, Col 28    100%    Windows (CRLF)    UTF-8
```
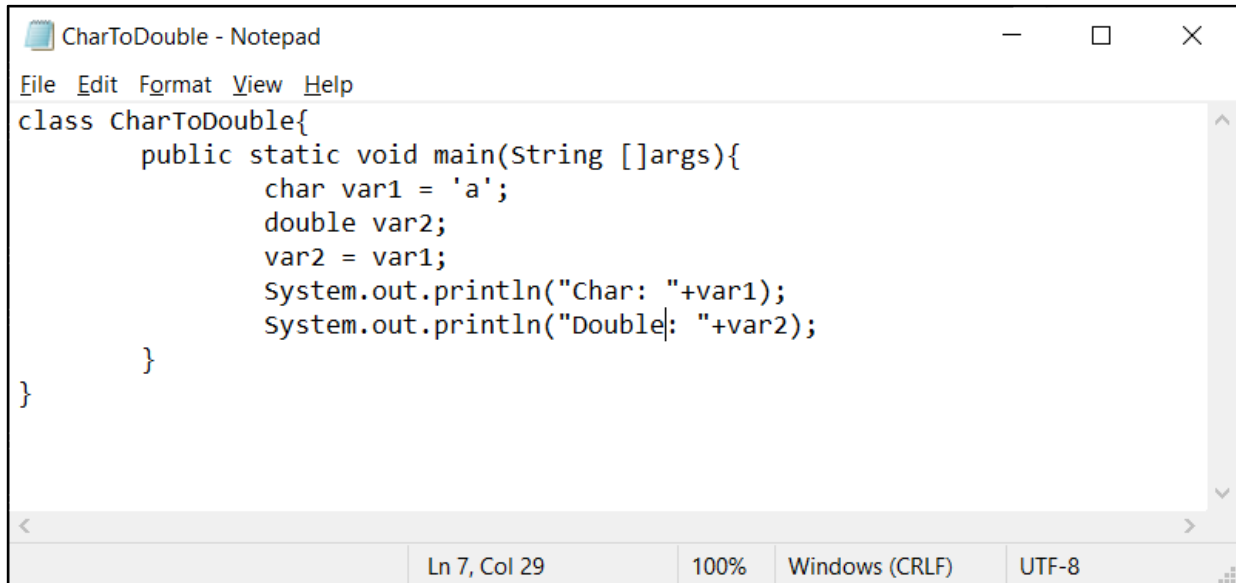
```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac CharToFloat.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java CharToFloat
Char: a
Float: 97.0
```

Typecasting is possible

It is implicit typecasting

7) char to double typecasting

```
CharToDouble - Notepad                                    —    □    ×
File  Edit  Format  View  Help
class CharToDouble{
        public static void main(String []args){
                char var1 = 'a';
                double var2;
                var2 = var1;
                System.out.println("Char: "+var1);
                System.out.println("Double: "+var2);
        }
}

                        Ln 7, Col 29        100%    Windows (CRLF)    UTF-8
```
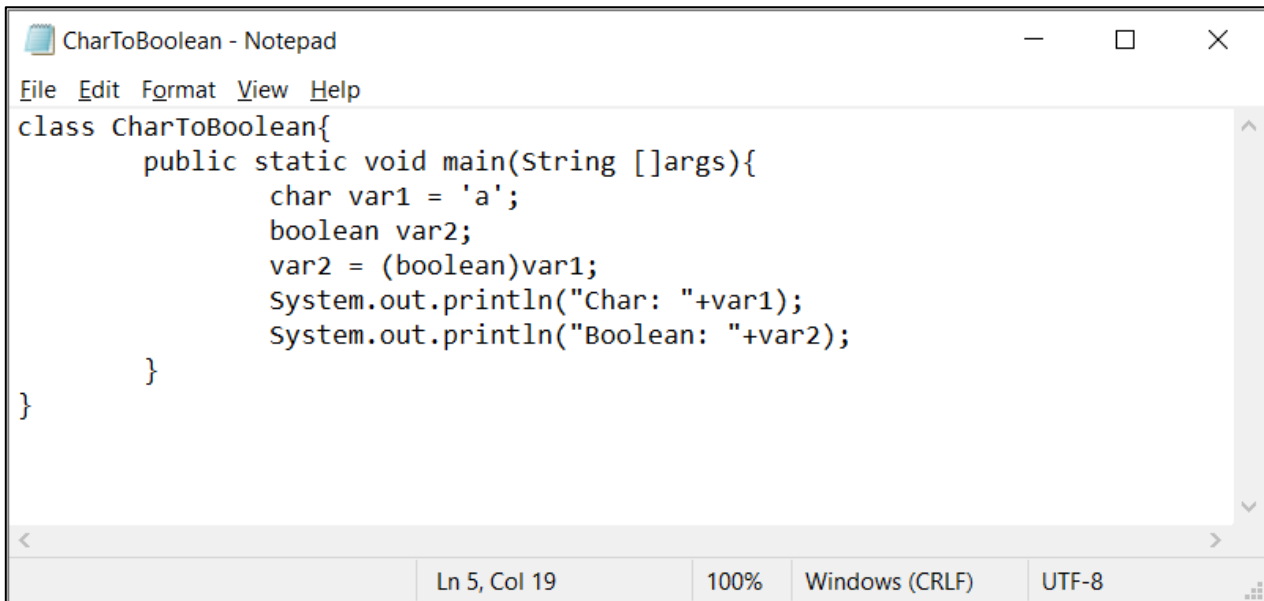
```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac CharToDouble.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java CharToDouble
Char: a
Double: 97.0
```

Typecasting is possible

It is implicit typecasting

8) char to boolean typecasting

```
CharToBoolean - Notepad                              —    □    ×
File  Edit  Format  View  Help
class CharToBoolean{
        public static void main(String []args){
                char var1 = 'a';
                boolean var2;
                var2 = (boolean)var1;
                System.out.println("Char: "+var1);
                System.out.println("Boolean: "+var2);
        }
}
                        Ln 5, Col 19    100%   Windows (CRLF)   UTF-8
```
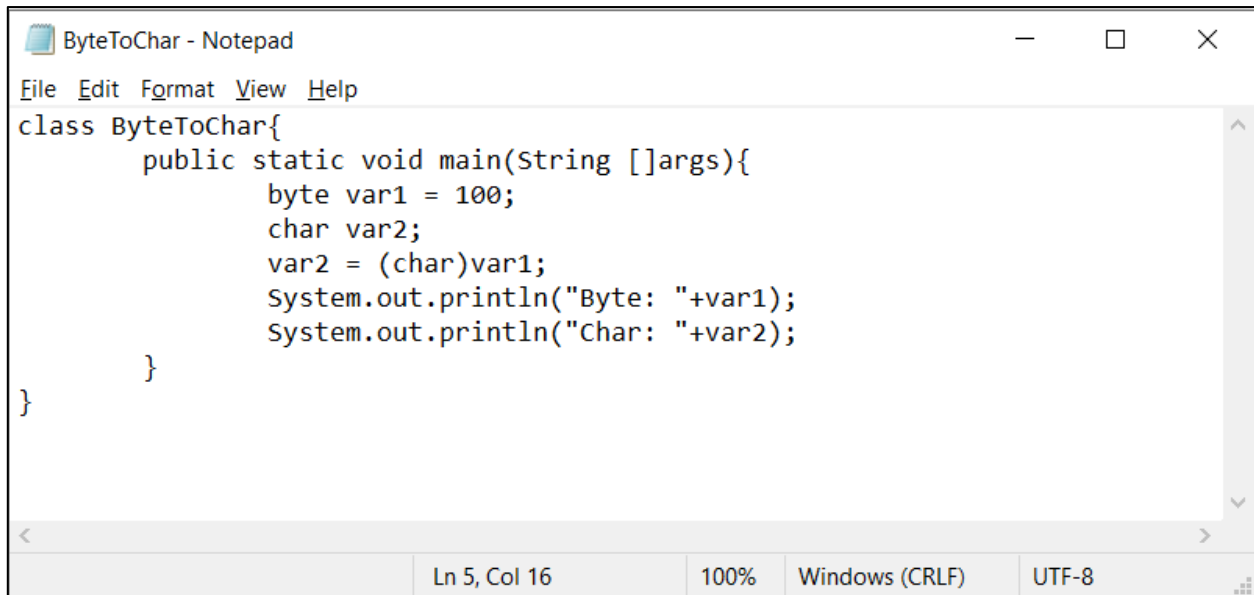
```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac CharToBoolean.java
CharToBoolean.java:5: error: incompatible types: char cannot be converted to boolean
            var2 = var1;
                   ^
1 error

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac CharToBoolean.java
CharToBoolean.java:5: error: incompatible types: char cannot be converted to boolean
            var2 = (boolean)var1;
                            ^
1 error
```

Typecasting is not possible

9) byte to char typecasting

```
ByteToChar - Notepad                                    —    □    ×
File  Edit  Format  View  Help
class ByteToChar{
        public static void main(String []args){
                byte var1 = 100;
                char var2;
                var2 = (char)var1;
                System.out.println("Byte: "+var1);
                System.out.println("Char: "+var2);
        }
}

                              Ln 5, Col 16      100%   Windows (CRLF)   UTF-8
```

```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac ByteToChar.java
ByteToChar.java:5: error: incompatible types: possible lossy conversion from byte to char
              var2 = var1;
                     ^
1 error

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac ByteToChar.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java ByteToChar
Byte: 100
Char: d
```
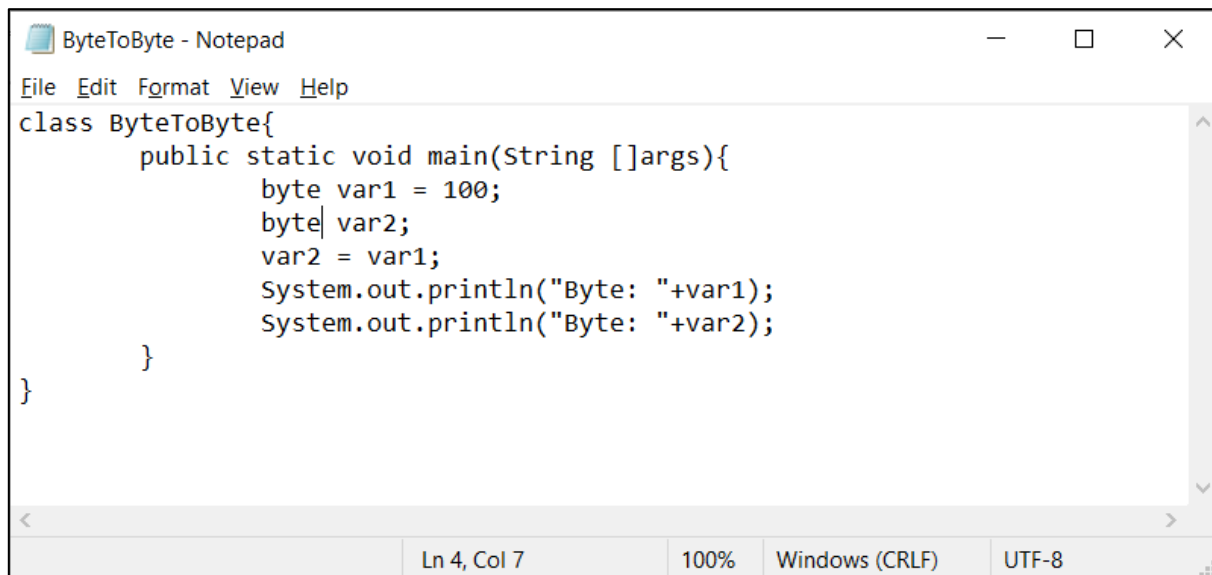
Typecasting is possible

It is explicit typecasting

10)   byte to byte typecasting

ByteToByte - Notepad — □ ×

File Edit Format View Help

```
class ByteToByte{
        public static void main(String []args){
                byte var1 = 100;
                byte var2;
                var2 = var1;
                System.out.println("Byte: "+var1);
                System.out.println("Byte: "+var2);
        }
}
```
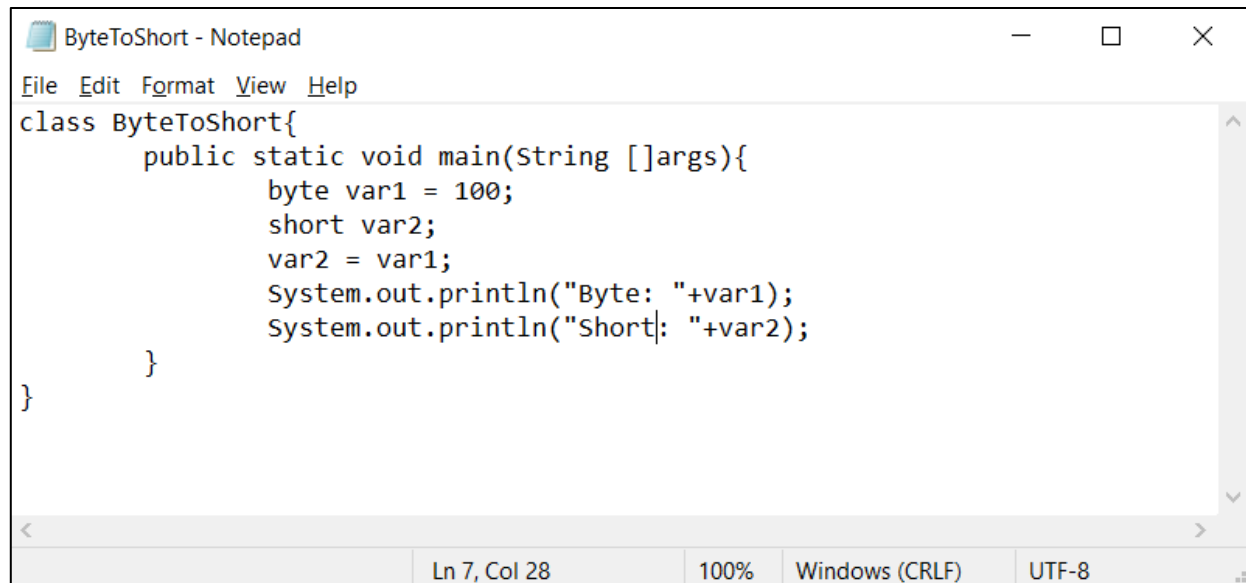
Ln 4, Col 7   100%   Windows (CRLF)   UTF-8

```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac ByteToByte.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java ByteToByte
Byte: 100
Byte: 100
```

No Typecasting is required

11) byte to short typecasting

```
ByteToShort - Notepad
File  Edit  Format  View  Help
class ByteToShort{
        public static void main(String []args){
                byte var1 = 100;
                short var2;
                var2 = var1;
                System.out.println("Byte: "+var1);
                System.out.println("Short: "+var2);
        }
}
                        Ln 7, Col 28    100%   Windows (CRLF)    UTF-8
```
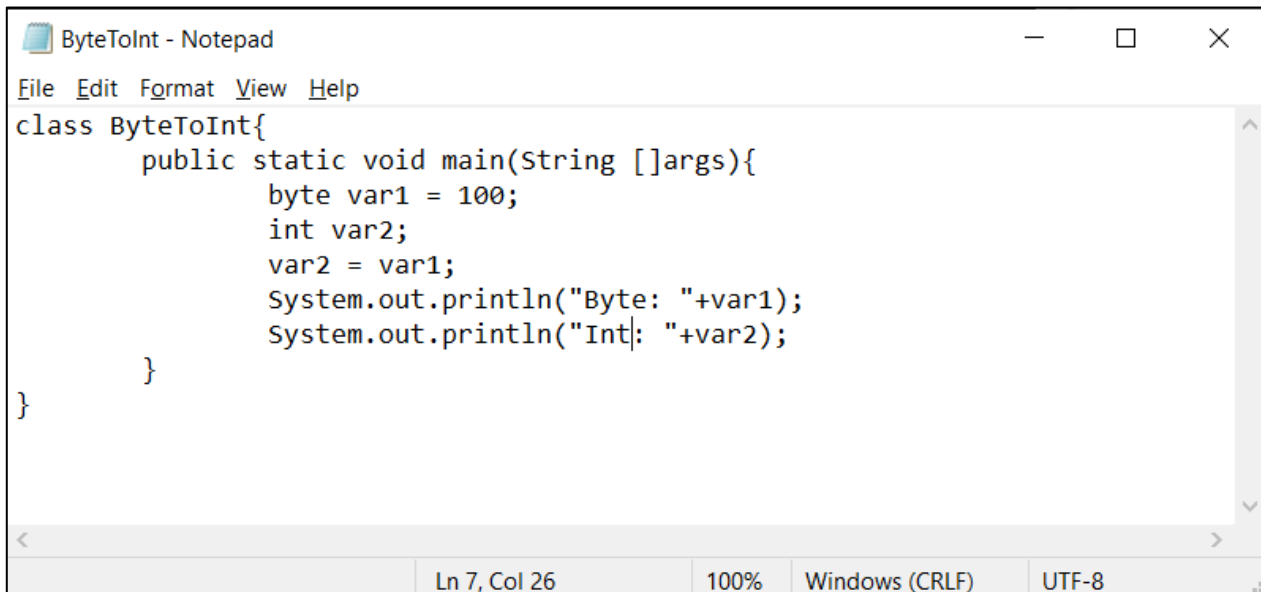
```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac ByteToShort.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java ByteToShort
Byte: 100
Short: 100
```

Typecasting is possible

It is implicit typecasting

12)   byte to int typecasting

```
ByteToInt - Notepad                                    —    □    ×
File  Edit  Format  View  Help
class ByteToInt{
        public static void main(String []args){
                byte var1 = 100;
                int var2;
                var2 = var1;
                System.out.println("Byte: "+var1);
                System.out.println("Int: "+var2);
        }
}

                        Ln 7, Col 26      100%   Windows (CRLF)   UTF-8
```
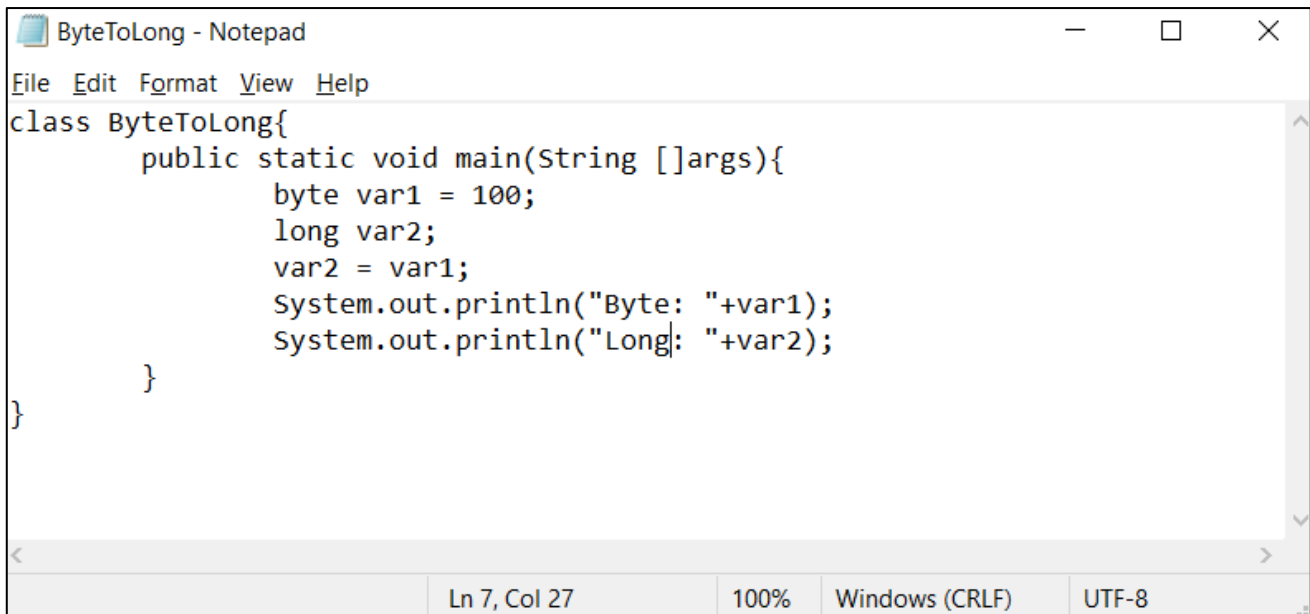
```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac ByteToInt.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java ByteToInt
Byte: 100
Int: 100
```

Typecasting is possible

It is implicit typecasting

13)   byte to long typecasting

```
ByteToLong - Notepad                                    —    □    ×

File  Edit  Format  View  Help
class ByteToLong{
        public static void main(String []args){
                byte var1 = 100;
                long var2;
                var2 = var1;
                System.out.println("Byte: "+var1);
                System.out.println("Long: "+var2);
        }
}

                        Ln 7, Col 27      100%   Windows (CRLF)   UTF-8
```
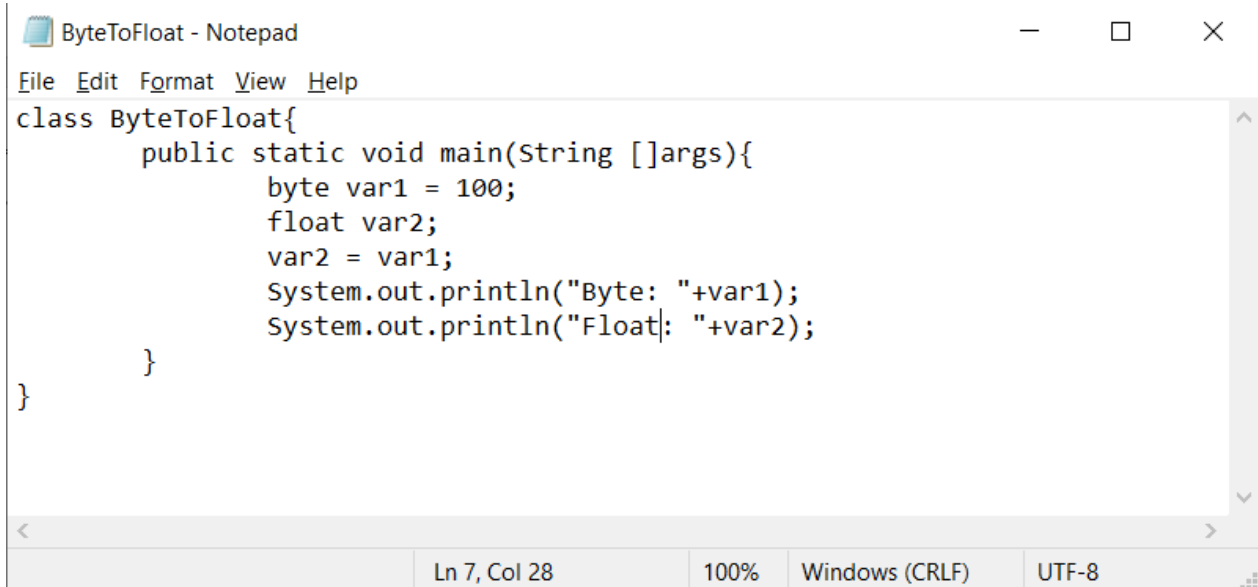
```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac ByteToLong.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java ByteToLong
Byte: 100
Long: 100
```

Typecasting is possible

It is implicit typecasting

14) byte to float typecasting

```
ByteToFloat - Notepad                                    —   □   ×
File  Edit  Format  View  Help
class ByteToFloat{
        public static void main(String []args){
                byte var1 = 100;
                float var2;
                var2 = var1;
                System.out.println("Byte: "+var1);
                System.out.println("Float: "+var2);
        }
}

                        Ln 7, Col 28      100%   Windows (CRLF)    UTF-8
```
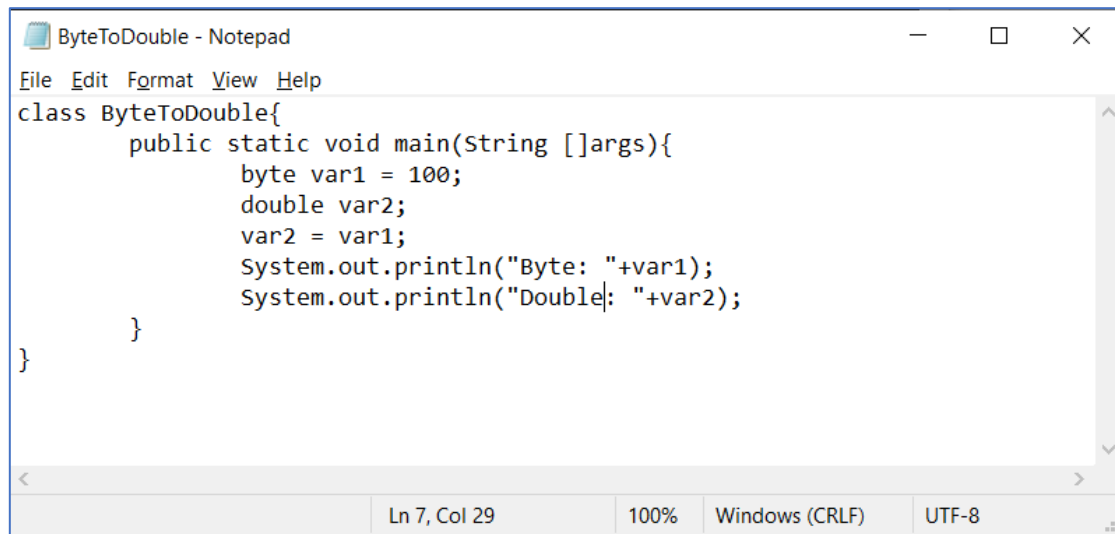
```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac ByteToFloat.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java ByteToFloat
Byte: 100
Float: 100.0
```

Typecasting is possible

It is implicit typecasting

15)   byte to double typecasting

```
ByteToDouble - Notepad                                    —    □    ×
File  Edit  Format  View  Help
class ByteToDouble{
        public static void main(String []args){
                byte var1 = 100;
                double var2;
                var2 = var1;
                System.out.println("Byte: "+var1);
                System.out.println("Double: "+var2);
        }
}

                        Ln 7, Col 29      100%    Windows (CRLF)     UTF-8
```
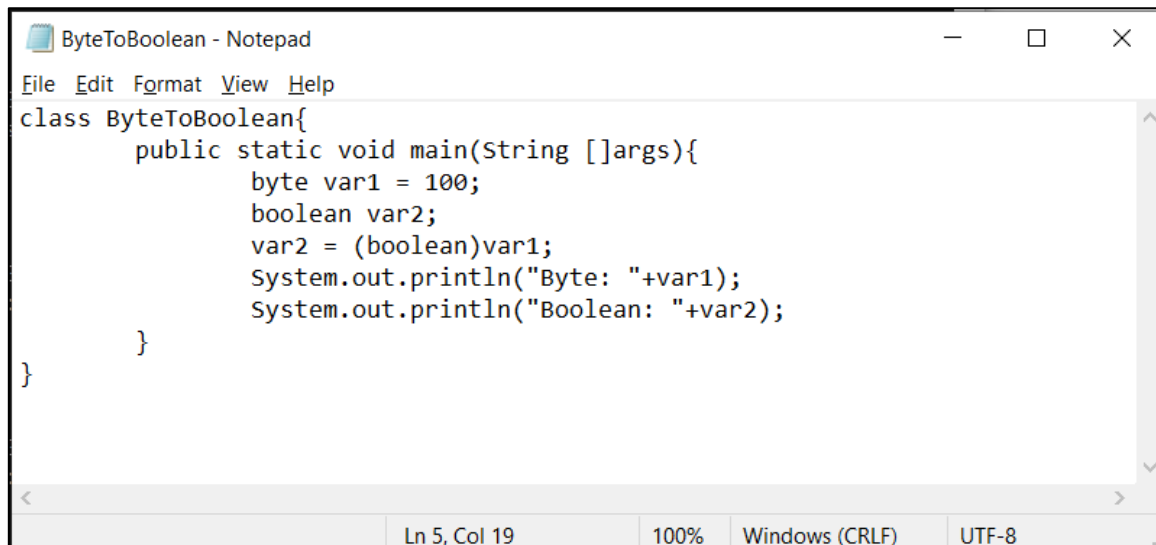
```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac ByteToDouble.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java ByteToDouble
Byte: 100
Double: 100.0
```
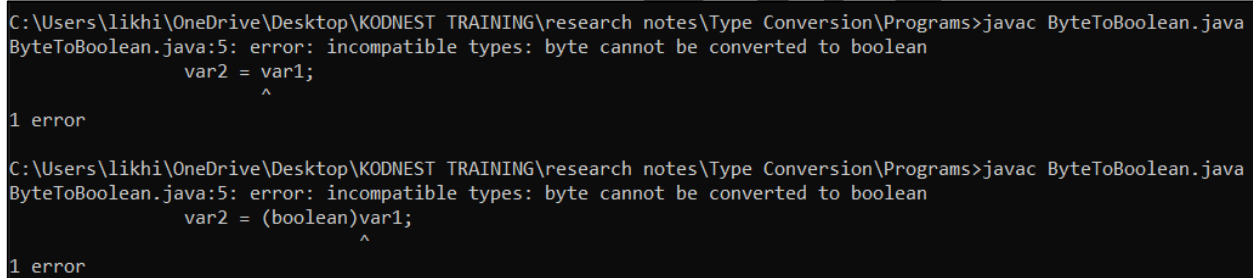
Typecasting is possible

It is implicit typecasting

16) byte to boolean typecasting

```
ByteToBoolean - Notepad                                    —    □    ×
File  Edit  Format  View  Help
class ByteToBoolean{
        public static void main(String []args){
                byte var1 = 100;
                boolean var2;
                var2 = (boolean)var1;
                System.out.println("Byte: "+var1);
                System.out.println("Boolean: "+var2);
        }
}

                          Ln 5, Col 19      100%   Windows (CRLF)   UTF-8
```
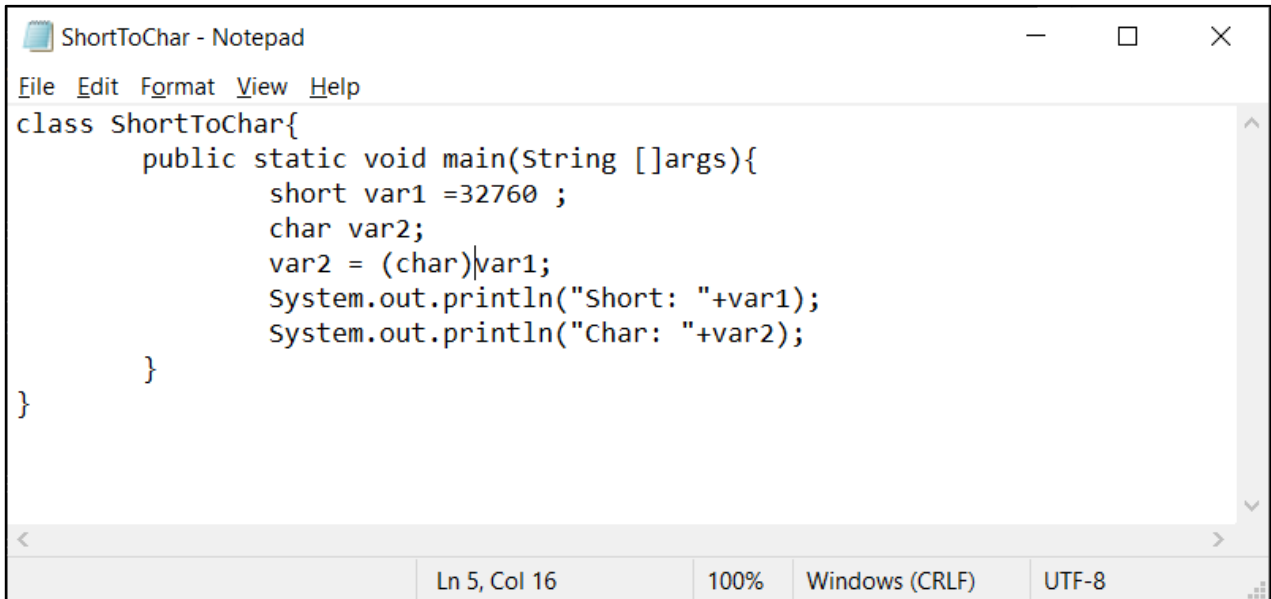
```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac ByteToBoolean.java
ByteToBoolean.java:5: error: incompatible types: byte cannot be converted to boolean
                var2 = var1;
                       ^
1 error

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac ByteToBoolean.java
ByteToBoolean.java:5: error: incompatible types: byte cannot be converted to boolean
                var2 = (boolean)var1;
                       ^
1 error
```

Typecasting is not possible

17)   short to char typecasting

```
ShortToChar - Notepad                                    —    □    ×
File  Edit  Format  View  Help
class ShortToChar{
        public static void main(String []args){
                short var1 =32760 ;
                char var2;
                var2 = (char)var1;
                System.out.println("Short: "+var1);
                System.out.println("Char: "+var2);
        }
}
                              Ln 5, Col 16      100%   Windows (CRLF)   UTF-8
```

```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac ShortToChar.java
ShortToChar.java:5: error: incompatible types: possible lossy conversion from short to char
                var2 = var1;
                       ^
1 error

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac ShortToChar.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java ShortToChar
Short: 32760
Char: ?
```
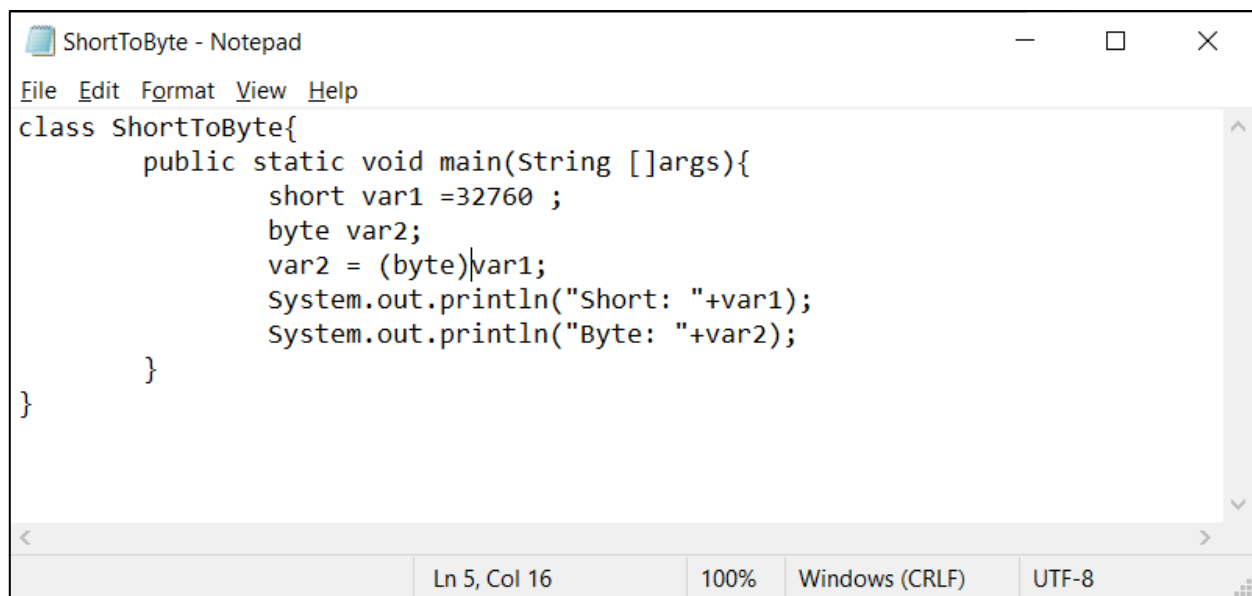
Typecasting is possible

It is explicit typecasting

18)   short to byte typecasting

```
ShortToByte - Notepad                                    —    □    ×
File  Edit  Format  View  Help
class ShortToByte{
        public static void main(String []args){
                short var1 =32760 ;
                byte var2;
                var2 = (byte)var1;
                System.out.println("Short: "+var1);
                System.out.println("Byte: "+var2);
        }
}

                   Ln 5, Col 16    100%    Windows (CRLF)    UTF-8
```

```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac ShortToByte.java
ShortToByte.java:5: error: incompatible types: possible lossy conversion from short to byte
            var2 = var1;
                   ^
1 error

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac ShortToByte.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java ShortToByte
Short: 32760
Byte: -8
```
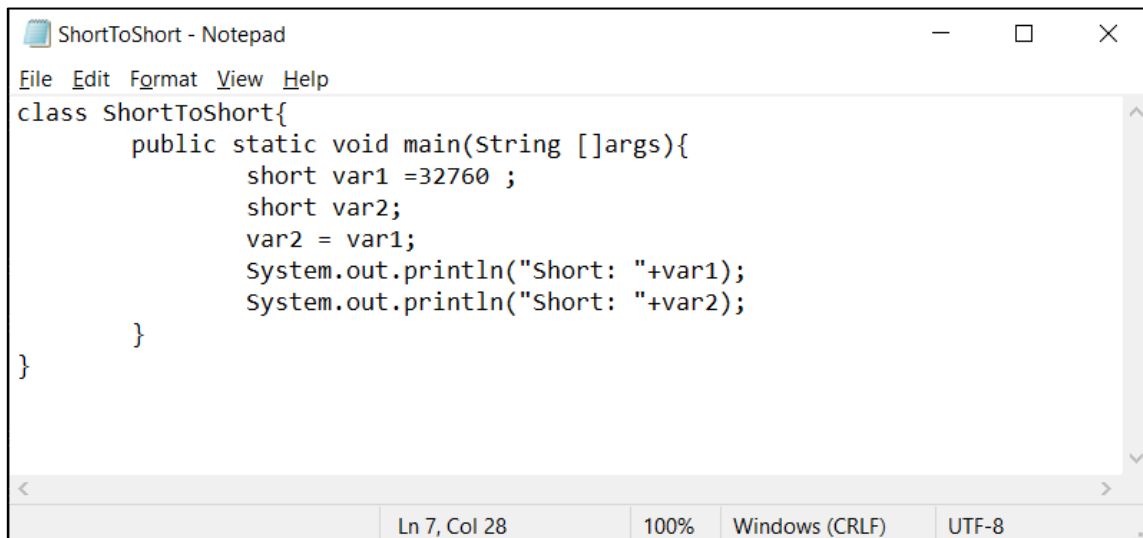
Typecasting is possible

It is explicit typecasting

19)   short to short typecasting

```
class ShortToShort{
        public static void main(String []args){
                short var1 =32760 ;
                short var2;
                var2 = var1;
                System.out.println("Short: "+var1);
                System.out.println("Short: "+var2);
        }
}
```
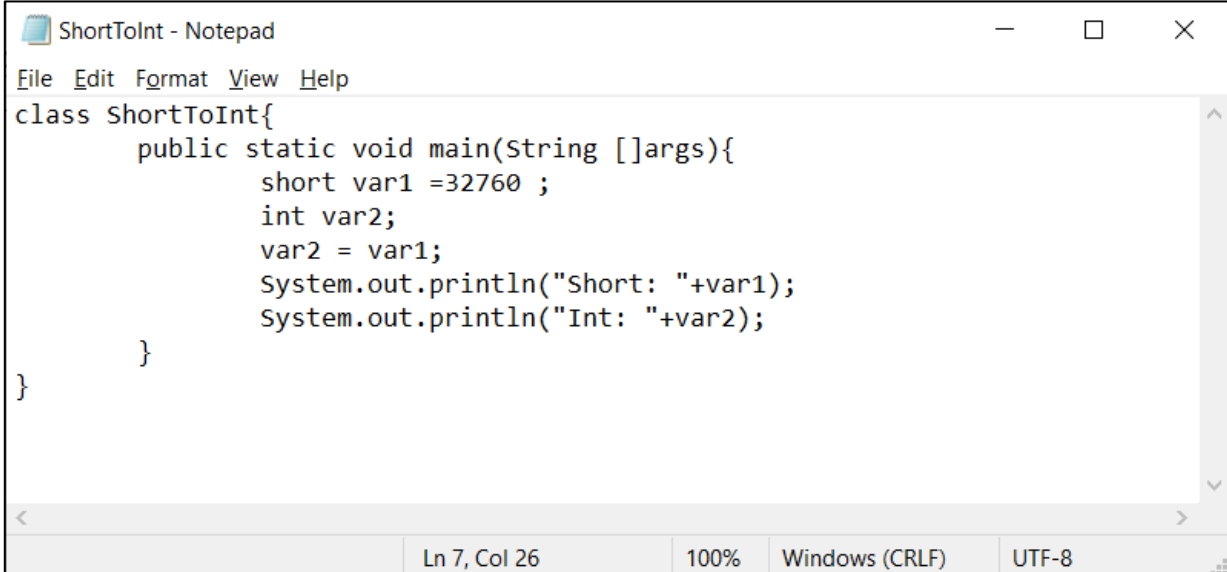
ShortToShort - Notepad
File Edit Format View Help
Ln 7, Col 28 | 100% | Windows (CRLF) | UTF-8

```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac ShortToShort.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java ShortToShort
Short: 32760
Short: 32760
```

No Typecasting is required

20)   short to int typecasting

```
ShortToInt - Notepad                              —    □    ×
File  Edit  Format  View  Help
class ShortToInt{
        public static void main(String []args){
                short var1 =32760 ;
                int var2;
                var2 = var1;
                System.out.println("Short: "+var1);
                System.out.println("Int: "+var2);
        }
}
                              Ln 7, Col 26    100%   Windows (CRLF)   UTF-8
```
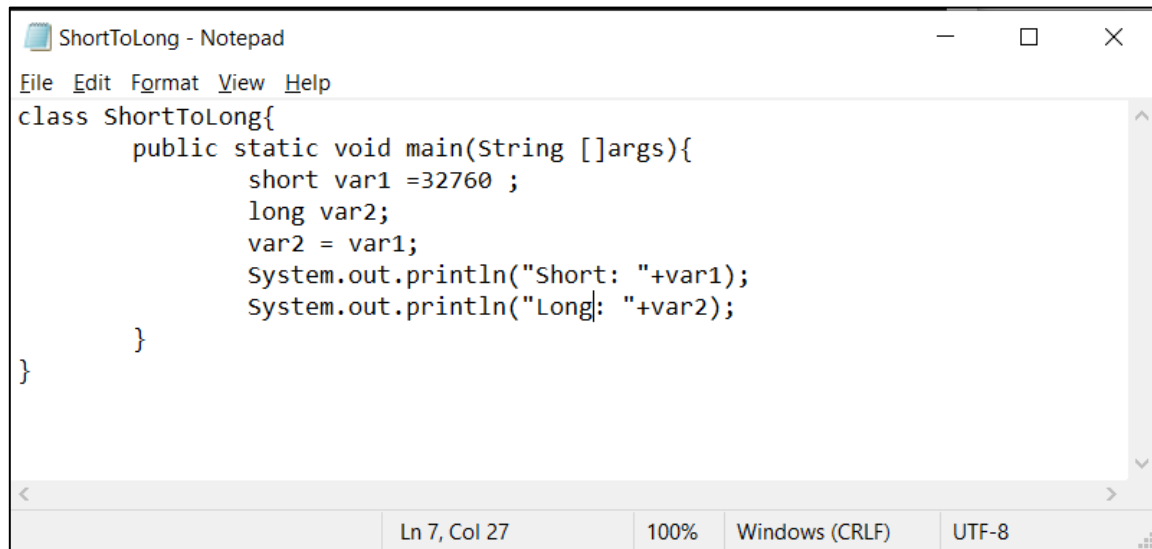
```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac ShortToInt.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java ShortToInt
Short: 32760
Int: 32760
```

Typecasting is possible

It is implicit typecasting

21) short to long typecasting

```
ShortToLong - Notepad                                          —    □    ×

File  Edit  Format  View  Help
class ShortToLong{
        public static void main(String []args){
                short var1 =32760 ;
                long var2;
                var2 = var1;
                System.out.println("Short: "+var1);
                System.out.println("Long: "+var2);
        }
}

                              Ln 7, Col 27        100%    Windows (CRLF)    UTF-8
```
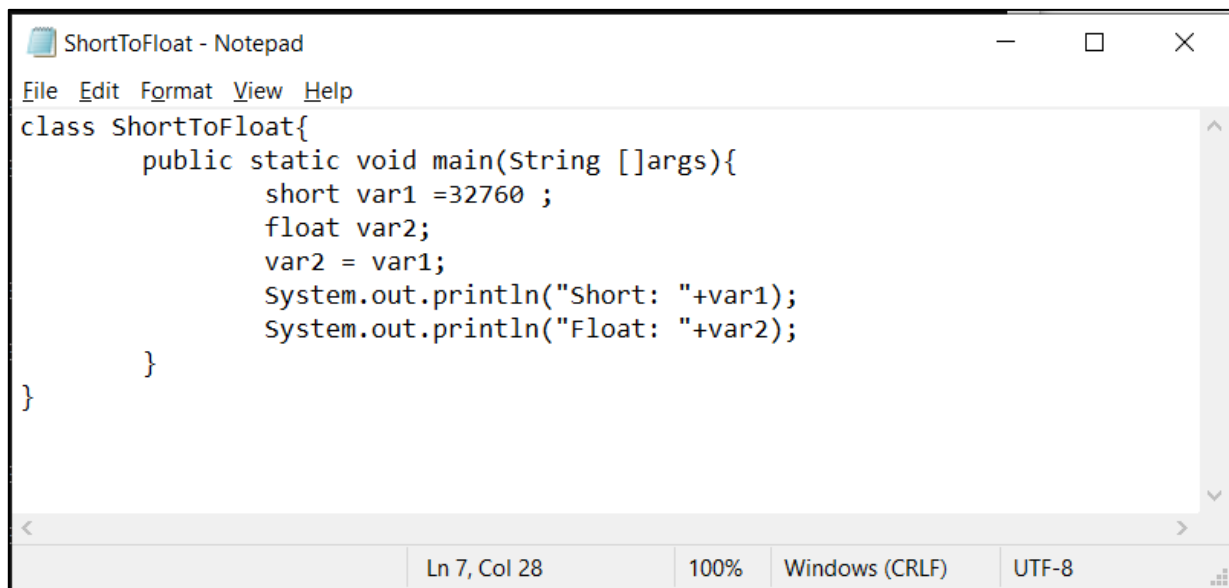
```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac ShortToLong.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java ShortToLong
Short: 32760
Long: 32760
```

Typecasting is possible

It is implicit typecasting

22)   short to float typecasting

```
ShortToFloat - Notepad                                    —    □    ×
File  Edit  Format  View  Help
class ShortToFloat{
        public static void main(String []args){
                short var1 =32760 ;
                float var2;
                var2 = var1;
                System.out.println("Short: "+var1);
                System.out.println("Float: "+var2);
        }
}

                        Ln 7, Col 28        100%    Windows (CRLF)    UTF-8
```
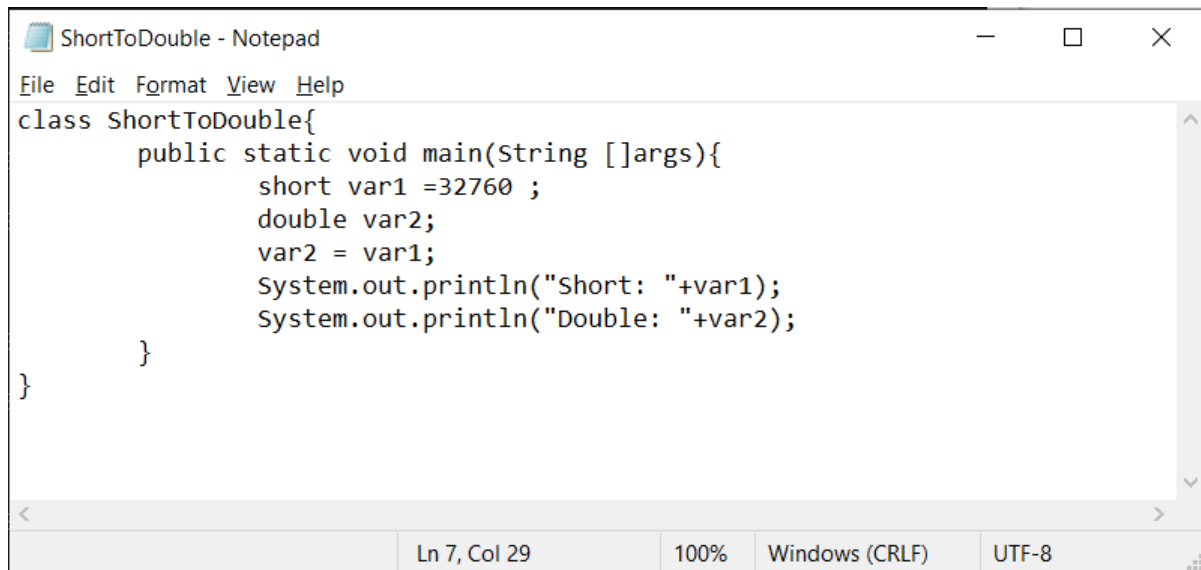
```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac ShortToFloat.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java ShortToFloat
Short: 32760
Float: 32760.0
```

Typecasting is possible

It is implicit typecasting

23) short to double typecasting

```
ShortToDouble - Notepad                                        —    □    ×
File  Edit  Format  View  Help
class ShortToDouble{
        public static void main(String []args){
                short var1 =32760 ;
                double var2;
                var2 = var1;
                System.out.println("Short: "+var1);
                System.out.println("Double: "+var2);
        }
}

                        Ln 7, Col 29      100%   Windows (CRLF)   UTF-8
```
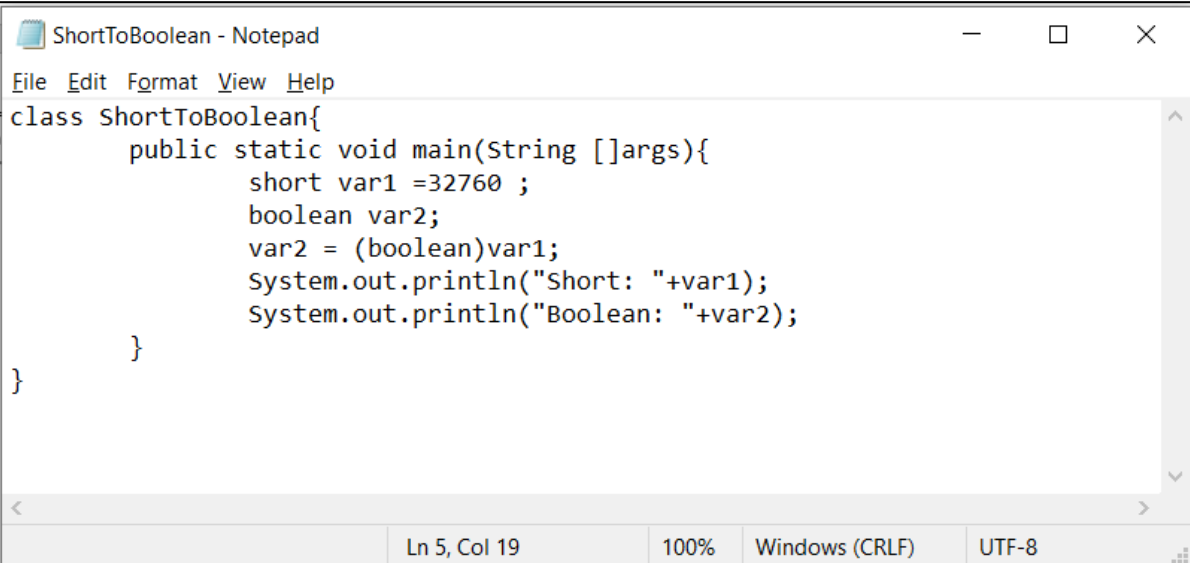
```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac ShortToDouble.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java ShortToDouble
Short: 32760
Double: 32760.0
```

Typecasting is possible

It is implicit typecasting

24) short to boolean typecasting

```
class ShortToBoolean{
        public static void main(String []args){
                short var1 =32760 ;
                boolean var2;
                var2 = (boolean)var1;
                System.out.println("Short: "+var1);
                System.out.println("Boolean: "+var2);
        }
}
```
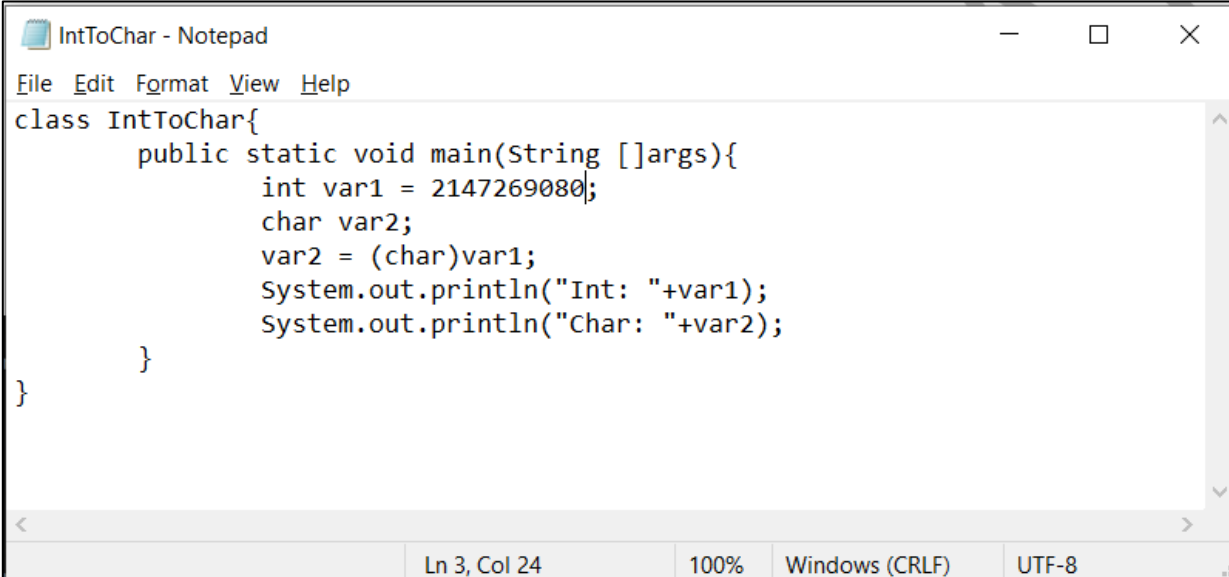
```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac ShortToBoolean.java
ShortToBoolean.java:5: error: incompatible types: short cannot be converted to boolean
              var2 = var1;
                     ^
1 error

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac ShortToBoolean.java
ShortToBoolean.java:5: error: incompatible types: short cannot be converted to boolean
              var2 = (boolean)var1;
                             ^
1 error
```

Typecasting is not possible

25)   int to char typecasting

```
IntToChar - Notepad                                    —    □    ×

File  Edit  Format  View  Help
class IntToChar{
        public static void main(String []args){
                int var1 = 2147269080;
                char var2;
                var2 = (char)var1;
                System.out.println("Int: "+var1);
                System.out.println("Char: "+var2);
        }
}

                              Ln 3, Col 24    100%   Windows (CRLF)   UTF-8
```

```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac IntToChar.java
IntToChar.java:5: error: incompatible types: possible lossy conversion from int to char
            var2 = var1;
                   ^
1 error

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac IntToChar.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java IntToChar
Int: 2147269075
Char: ?

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac IntToChar.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java IntToChar
Int: 2147269080
Char: ?
```
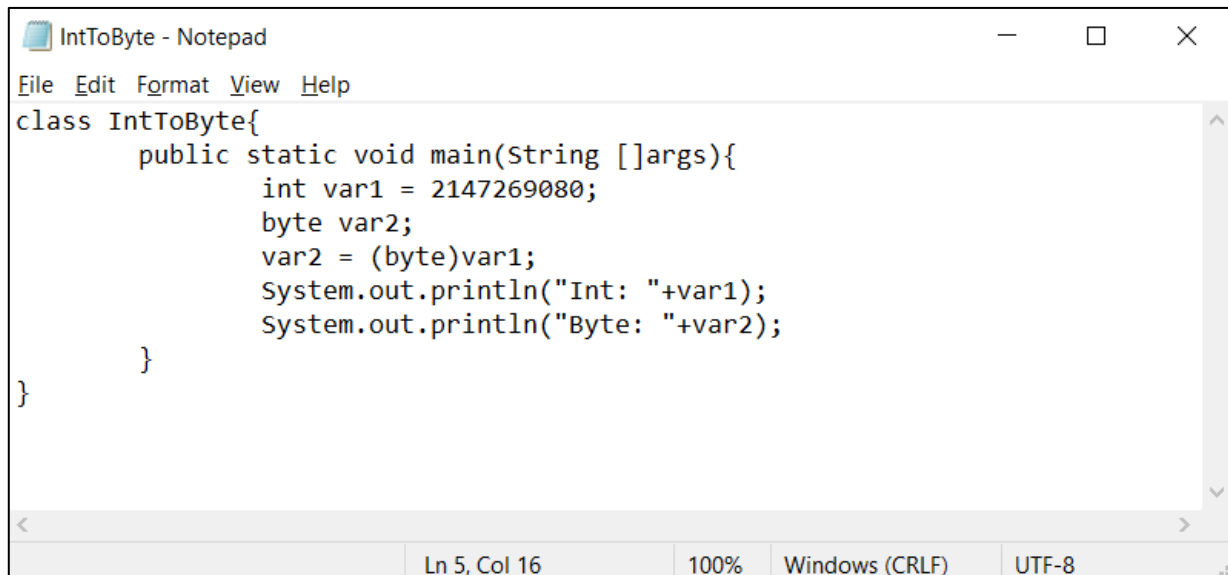
Typecasting is possible

It is explicit typecasting

26)   int to byte typecasting

```
IntToByte - Notepad                                    —    □    ×

File  Edit  Format  View  Help
class IntToByte{
        public static void main(String []args){
                int var1 = 2147269080;
                byte var2;
                var2 = (byte)var1;
                System.out.println("Int: "+var1);
                System.out.println("Byte: "+var2);
        }
}

                    Ln 5, Col 16        100%    Windows (CRLF)    UTF-8
```

```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac IntToByte.java
IntToByte.java:5: error: incompatible types: possible lossy conversion from int to byte
             var2 = var1;
                    ^
1 error

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac IntToByte.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java IntToByte
Int: 2147269080
Byte: -40
```
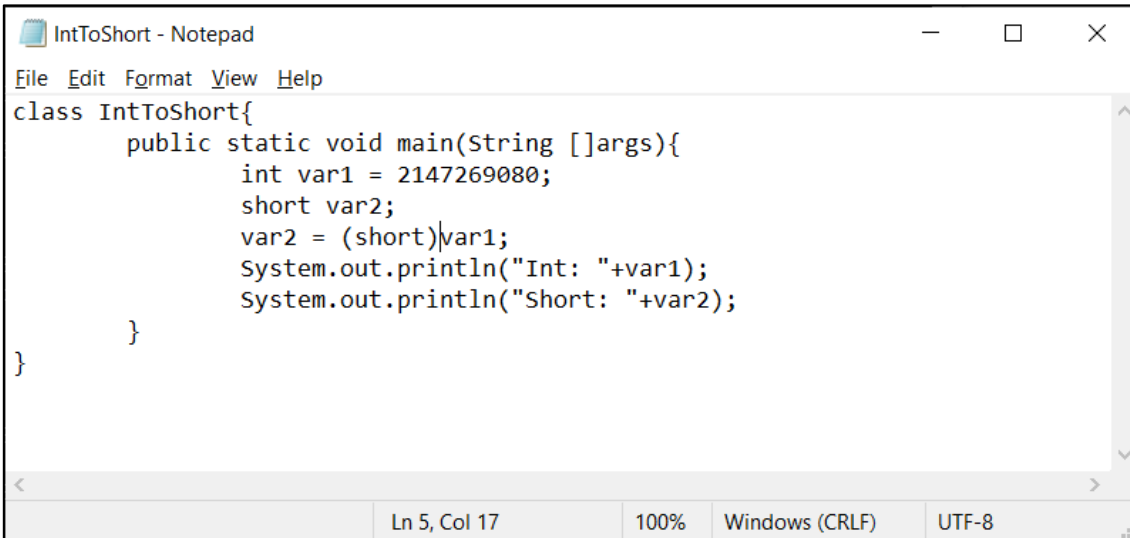
Typecasting is possible

It is explicit typecasting

27)   int to short typecasting

```
IntToShort - Notepad                                    —    □    ×

File  Edit  Format  View  Help
class IntToShort{
        public static void main(String []args){
                int var1 = 2147269080;
                short var2;
                var2 = (short)var1;
                System.out.println("Int: "+var1);
                System.out.println("Short: "+var2);
        }
}

                        Ln 5, Col 17      100%    Windows (CRLF)    UTF-8
```

```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac IntToShort.java
IntToShort.java:5: error: incompatible types: possible lossy conversion from int to short
            var2 = var1;
                   ^
1 error

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac IntToShort.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java IntToShort
Int: 2147269080
Short: -17960
```
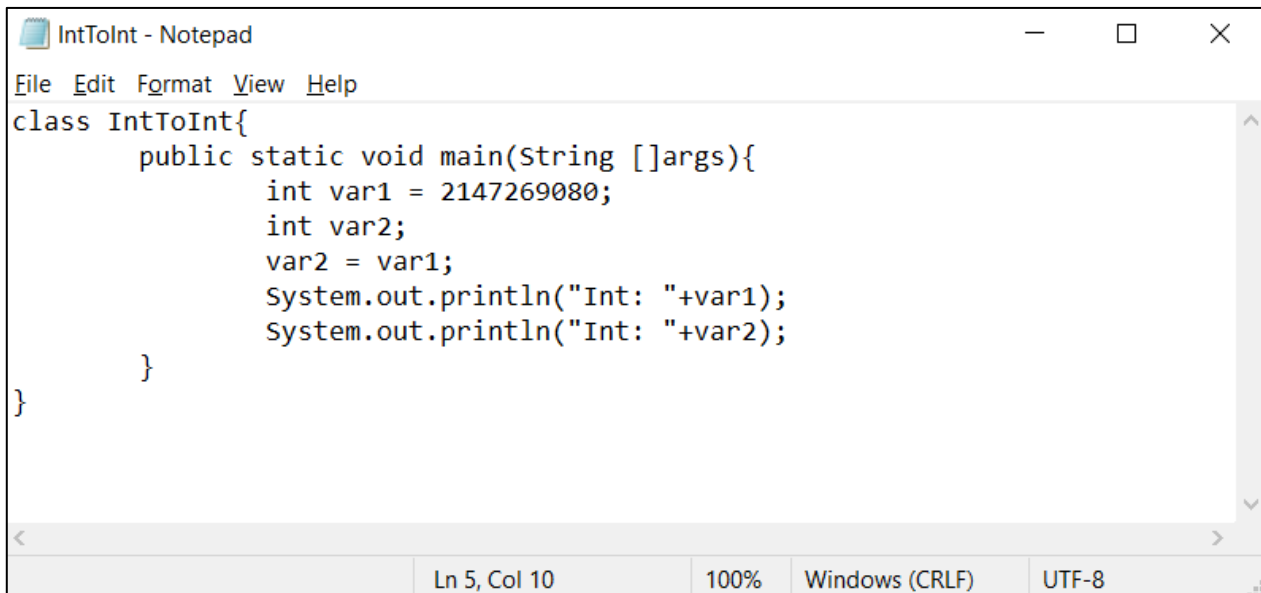
Typecasting is possible

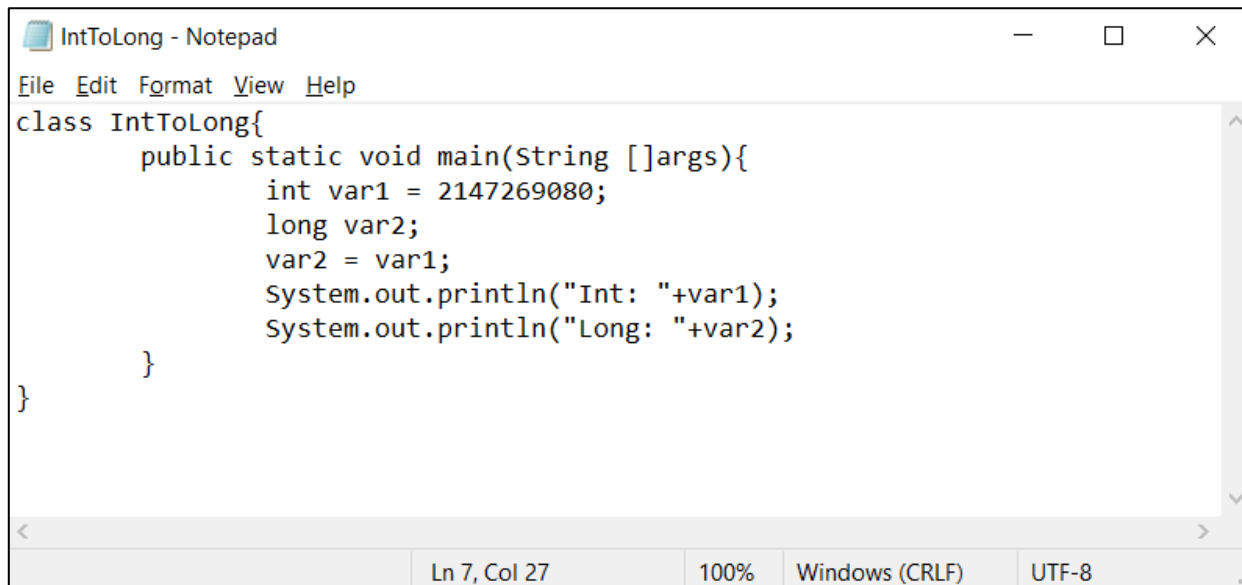It is explicit typecasting

28)   int to int typecasting

```
IntToInt - Notepad                                            —    □    ✕
File  Edit  Format  View  Help
class IntToInt{
        public static void main(String []args){
                int var1 = 2147269080;
                int var2;
                var2 = var1;
                System.out.println("Int: "+var1);
                System.out.println("Int: "+var2);
        }
}
```
Ln 5, Col 10   100%   Windows (CRLF)   UTF-8

```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac IntToInt.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java IntToInt
Int: 2147269080
Int: 2147269080
```

No Typecasting is required

29)   int to long typecasting

```
IntToLong - Notepad                                    —    □    ×
File  Edit  Format  View  Help
class IntToLong{
        public static void main(String []args){
                int var1 = 2147269080;
                long var2;
                var2 = var1;
                System.out.println("Int: "+var1);
                System.out.println("Long: "+var2);
        }
}



                                    Ln 7, Col 27      100%   Windows (CRLF)   UTF-8
```
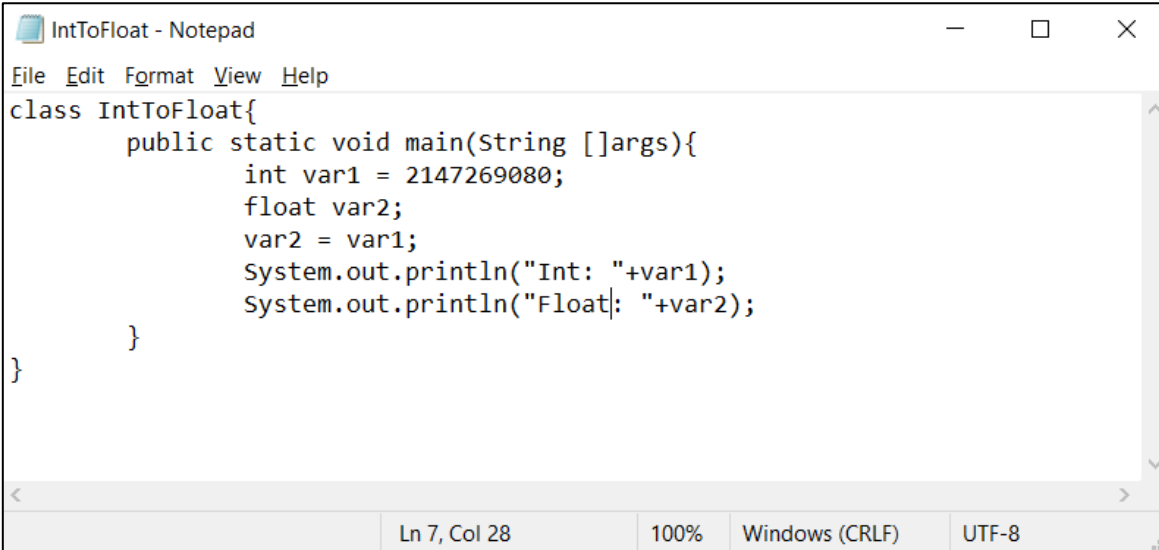
```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac IntToLong.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java IntToLong
Int: 2147269080
Long: 2147269080
```

Typecasting is possible

It is implicit typecasting

30)   int to float typecasting

```
IntToFloat - Notepad                                    —    □    ×
File  Edit  Format  View  Help
class IntToFloat{
        public static void main(String []args){
                int var1 = 2147269080;
                float var2;
                var2 = var1;
                System.out.println("Int: "+var1);
                System.out.println("Float: "+var2);
        }
}
                        Ln 7, Col 28        100%    Windows (CRLF)    UTF-8
```
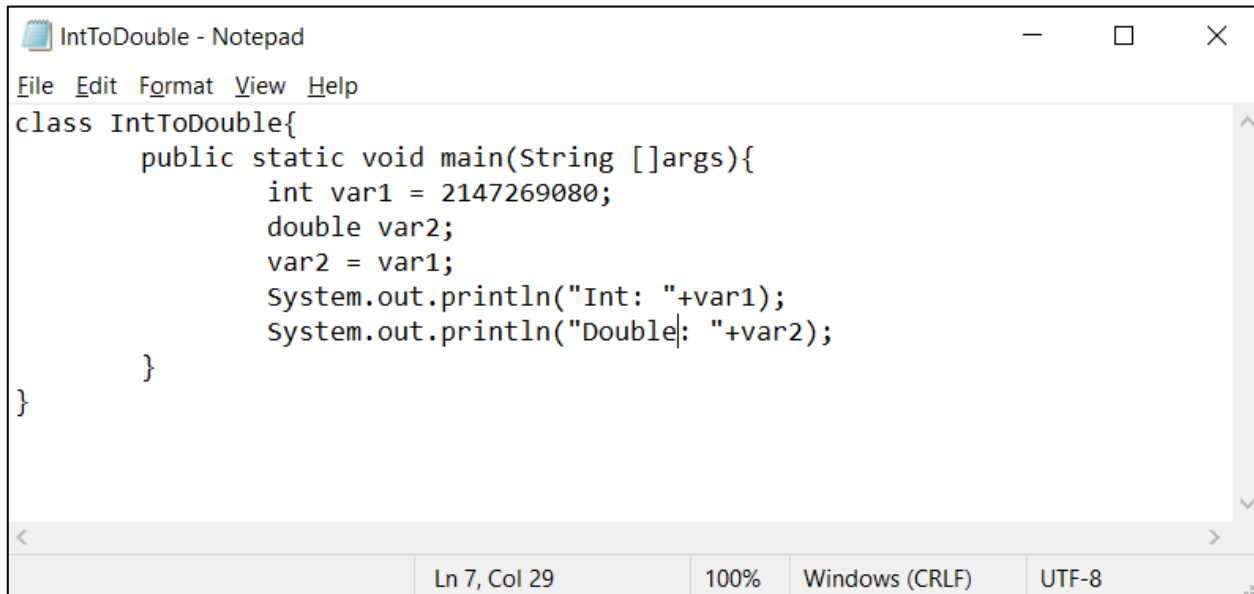
```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac IntToFloat.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java IntToFloat
Int: 2147269080
Float: 2.14726912E9
```

Typecasting is possible

It is implicit typecasting

31) int to double typecasting

```
class IntToDouble{
        public static void main(String []args){
                int var1 = 2147269080;
                double var2;
                var2 = var1;
                System.out.println("Int: "+var1);
                System.out.println("Double: "+var2);
        }
}
```
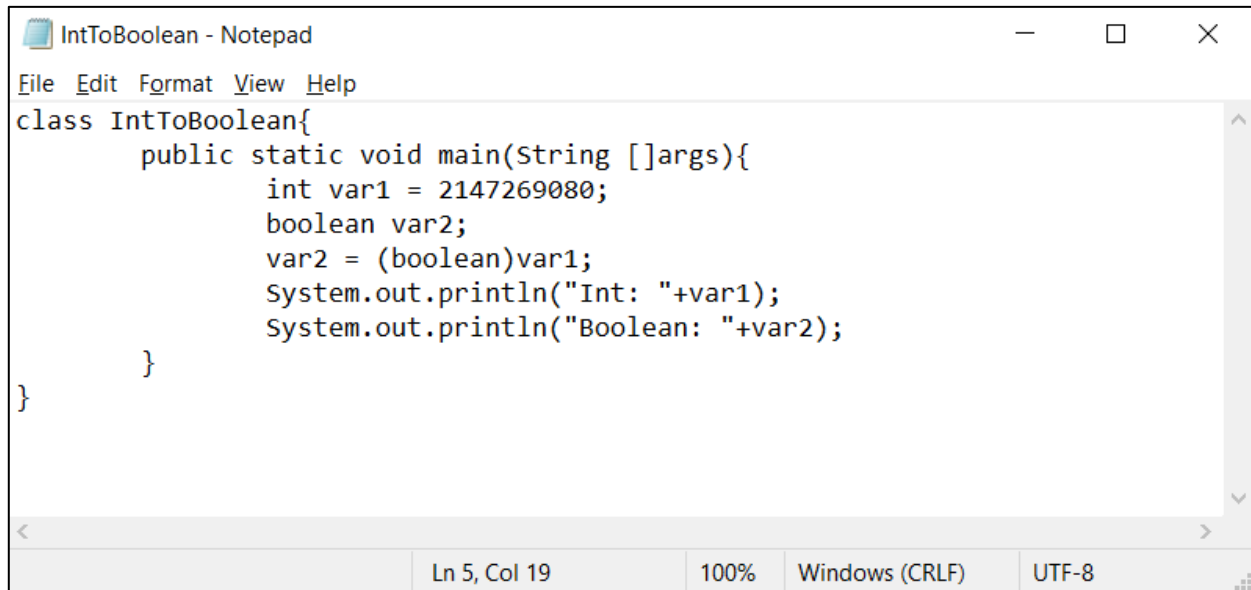
IntToDouble - Notepad

File Edit Format View Help

Ln 7, Col 29   100%   Windows (CRLF)   UTF-8

```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac IntToDouble.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java IntToDouble
Int: 2147269080
Double: 2.14726908E9
```
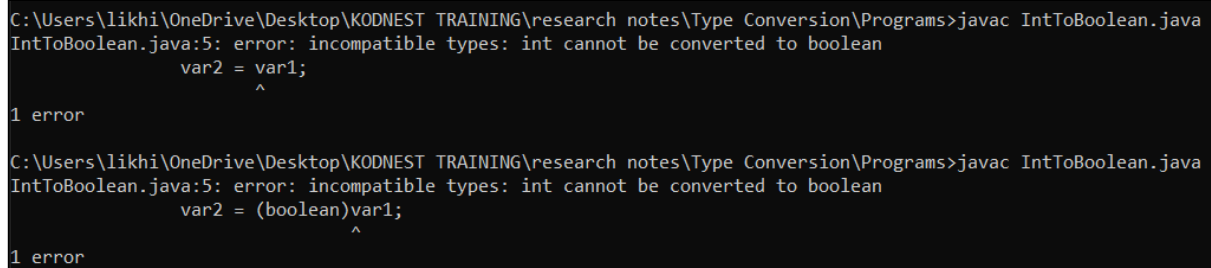
Typecasting is possible

It is implicit typecasting

32) int to boolean typecasting

```
IntToBoolean - Notepad                                    —    □    ×
File  Edit  Format  View  Help
class IntToBoolean{
        public static void main(String []args){
                int var1 = 2147269080;
                boolean var2;
                var2 = (boolean)var1;
                System.out.println("Int: "+var1);
                System.out.println("Boolean: "+var2);
        }
}

                        Ln 5, Col 19      100%  Windows (CRLF)   UTF-8
```
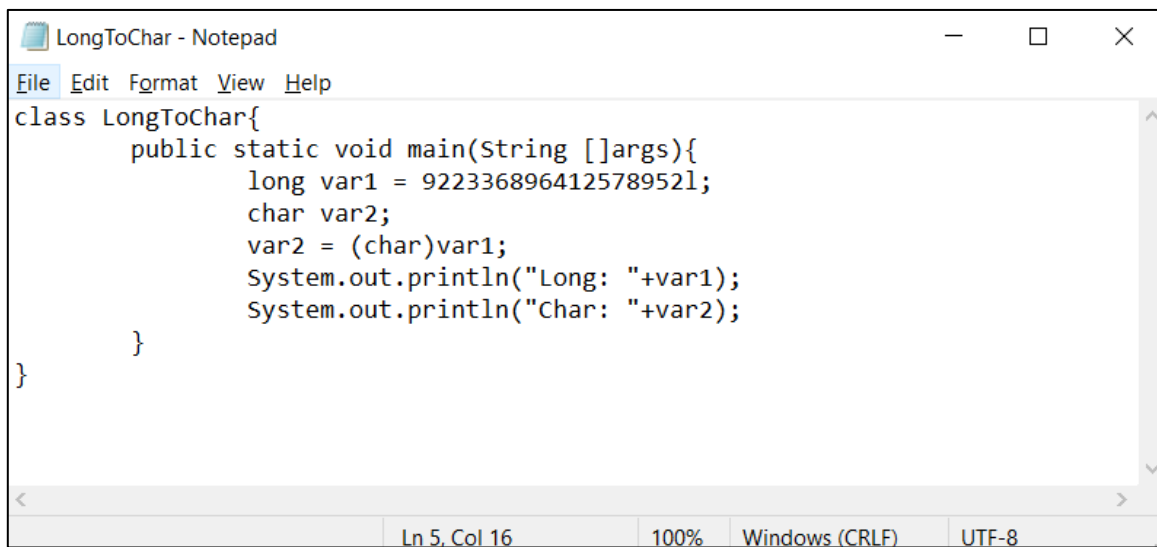
```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac IntToBoolean.java
IntToBoolean.java:5: error: incompatible types: int cannot be converted to boolean
                var2 = var1;
                       ^
1 error

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac IntToBoolean.java
IntToBoolean.java:5: error: incompatible types: int cannot be converted to boolean
                var2 = (boolean)var1;
                                ^
1 error
```

Typecasting is not possible

33) long to char typecasting

```
LongToChar - Notepad                                    —    □    ×
File  Edit  Format  View  Help
class LongToChar{
        public static void main(String []args){
                long var1 = 922336896412578952l;
                char var2;
                var2 = (char)var1;
                System.out.println("Long: "+var1);
                System.out.println("Char: "+var2);
        }
}

                              Ln 5, Col 16        100%    Windows (CRLF)    UTF-8
```

```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac LongToChar.java
LongToChar.java:5: error: incompatible types: possible lossy conversion from long to char
             var2 = var1;
                    ^
1 error

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac LongToChar.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java LongToChar
Long: 922336896412578952
Char: ?
```
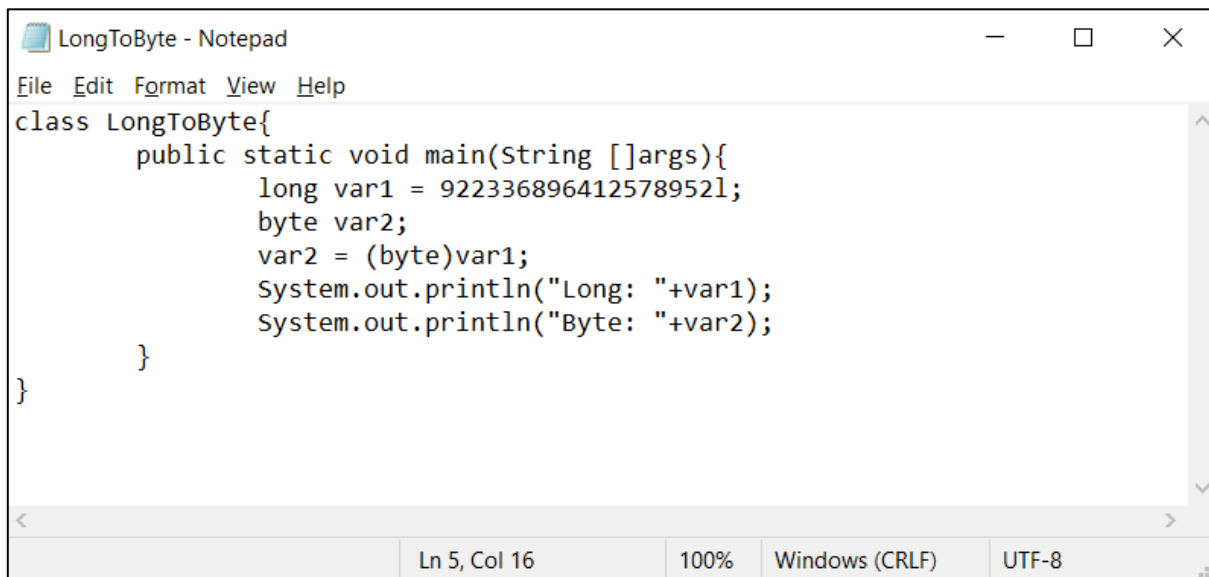
Typecasting is possible

It is explicit typecasting

34)   long to byte typecasting

```
LongToByte - Notepad                                    —    □    ×
File  Edit  Format  View  Help
class LongToByte{
        public static void main(String []args){
                long var1 = 9223368964125789521;
                byte var2;
                var2 = (byte)var1;
                System.out.println("Long: "+var1);
                System.out.println("Byte: "+var2);
        }
}
                        Ln 5, Col 16      100%   Windows (CRLF)   UTF-8
```

```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac LongToByte.java
LongToByte.java:5: error: incompatible types: possible lossy conversion from long to byte
            var2 = var1;
                     ^
1 error

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac LongToByte.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java LongToByte
Long: 922336896412578952
Byte: -120
```
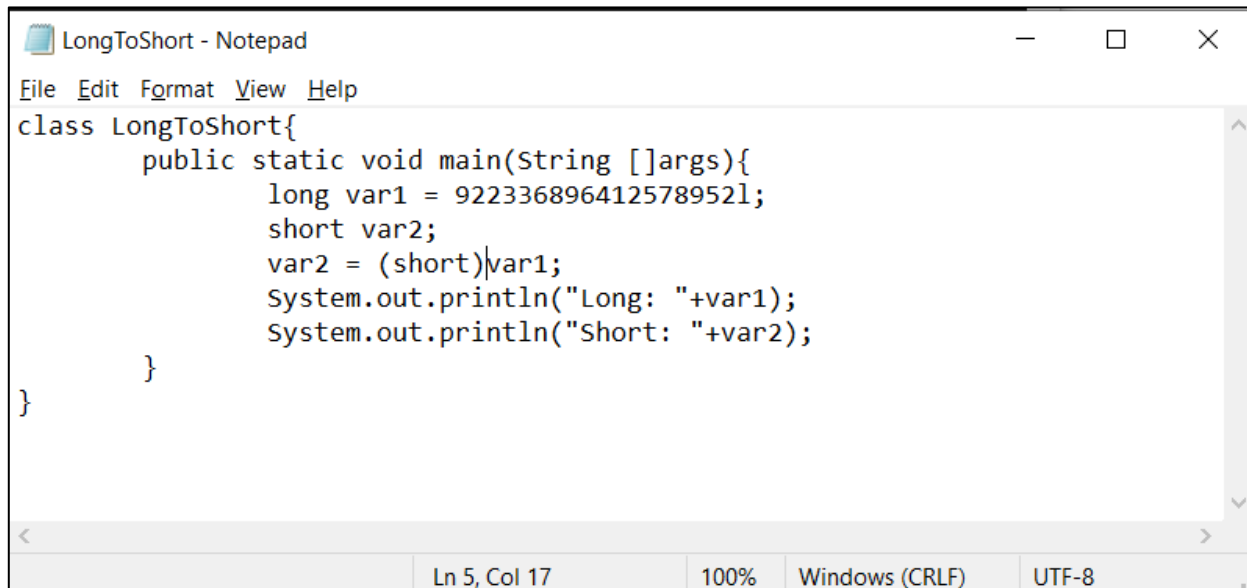
Typecasting is possible

It is explicit typecasting

35) long to short typecasting

```
LongToShort - Notepad                                    —  □  ×
File Edit Format View Help
class LongToShort{
        public static void main(String []args){
                long var1 = 9223368964125789521;
                short var2;
                var2 = (short)var1;
                System.out.println("Long: "+var1);
                System.out.println("Short: "+var2);
        }
}

                        Ln 5, Col 17    100%   Windows (CRLF)   UTF-8
```

```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac LongToShort.java
LongToShort.java:5: error: incompatible types: possible lossy conversion from long to short
                var2 = var1;
                       ^
1 error

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac LongToShort.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java LongToShort
Long: 922336896412578952
Short: 29832
```
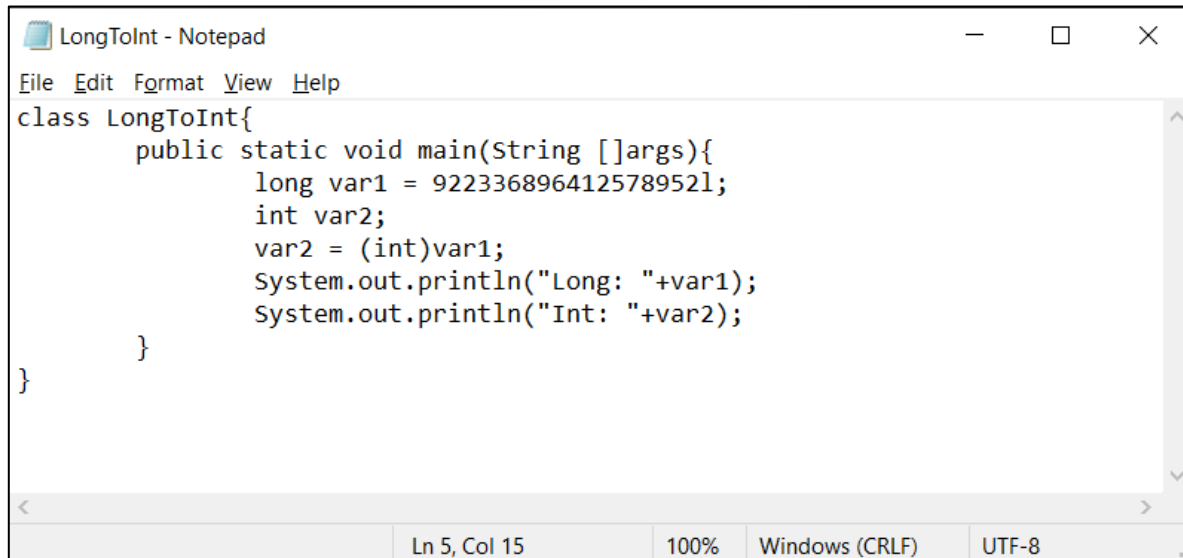
Typecasting is possible

It is explicit typecasting

36)   long to int typecasting

```
LongToInt - Notepad                                      —    □    ×
File  Edit  Format  View  Help
class LongToInt{
        public static void main(String []args){
                long var1 = 9223368964125789521;
                int var2;
                var2 = (int)var1;
                System.out.println("Long: "+var1);
                System.out.println("Int: "+var2);
        }
}

                          Ln 5, Col 15      100%    Windows (CRLF)    UTF-8
```

```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac LongToInt.java
LongToInt.java:5: error: incompatible types: possible lossy conversion from long to int
            var2 = var1;
                   ^
1 error

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac LongToInt.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java LongToInt
Long: 922336896412578952
Int: 1105753224
```
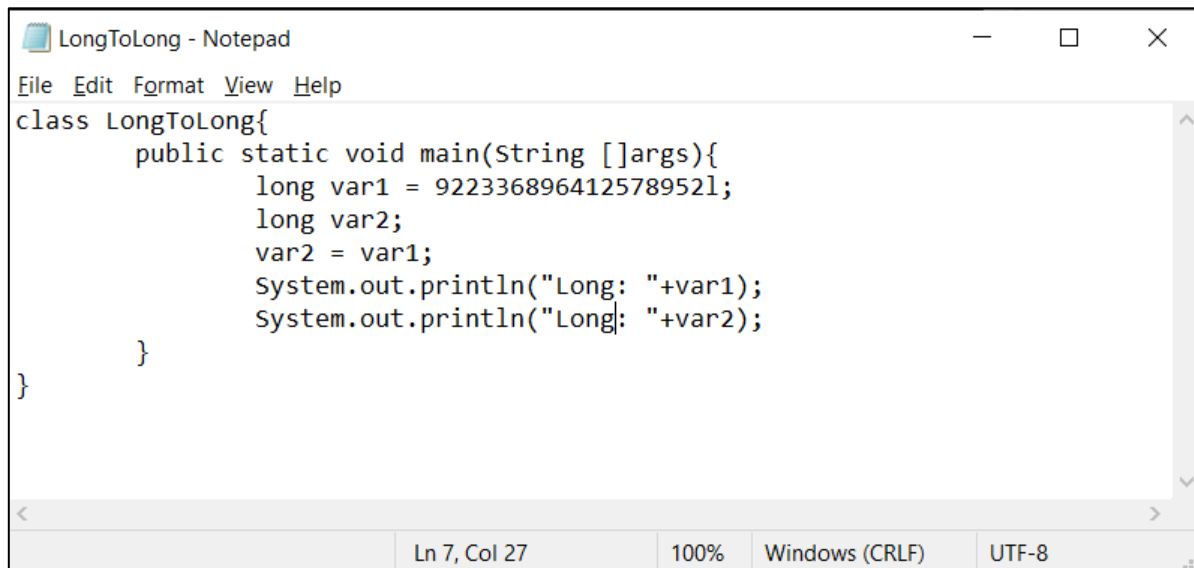
Typecasting is possible

It is explicit typecasting
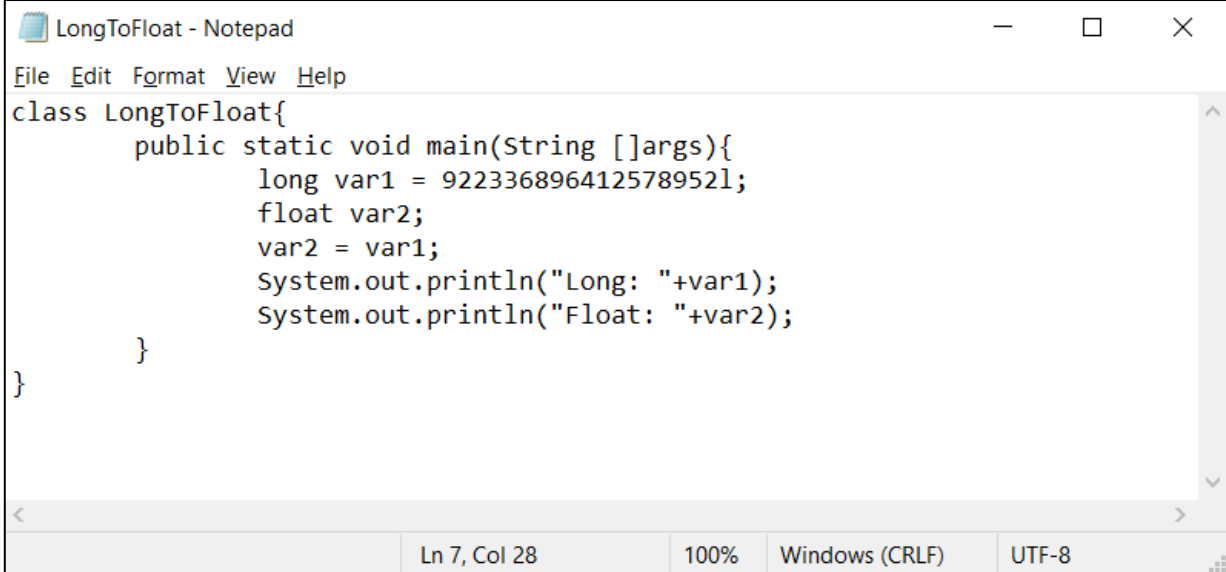
37)   long to long typecasting

```
class LongToLong{
        public static void main(String []args){
                long var1 = 9223368964125789521;
                long var2;
                var2 = var1;
                System.out.println("Long: "+var1);
                System.out.println("Long: "+var2);
        }
}
```

Ln 7, Col 27   100%   Windows (CRLF)   UTF-8

```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac LongToLong.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java LongToLong
Long: 922336896412578952
Long: 922336896412578952
```

No Typecasting is required

38) long to float typecasting

```
class LongToFloat{
        public static void main(String []args){
                long var1 = 9223368964125789521;
                float var2;
                var2 = var1;
                System.out.println("Long: "+var1);
                System.out.println("Float: "+var2);
        }
}
```
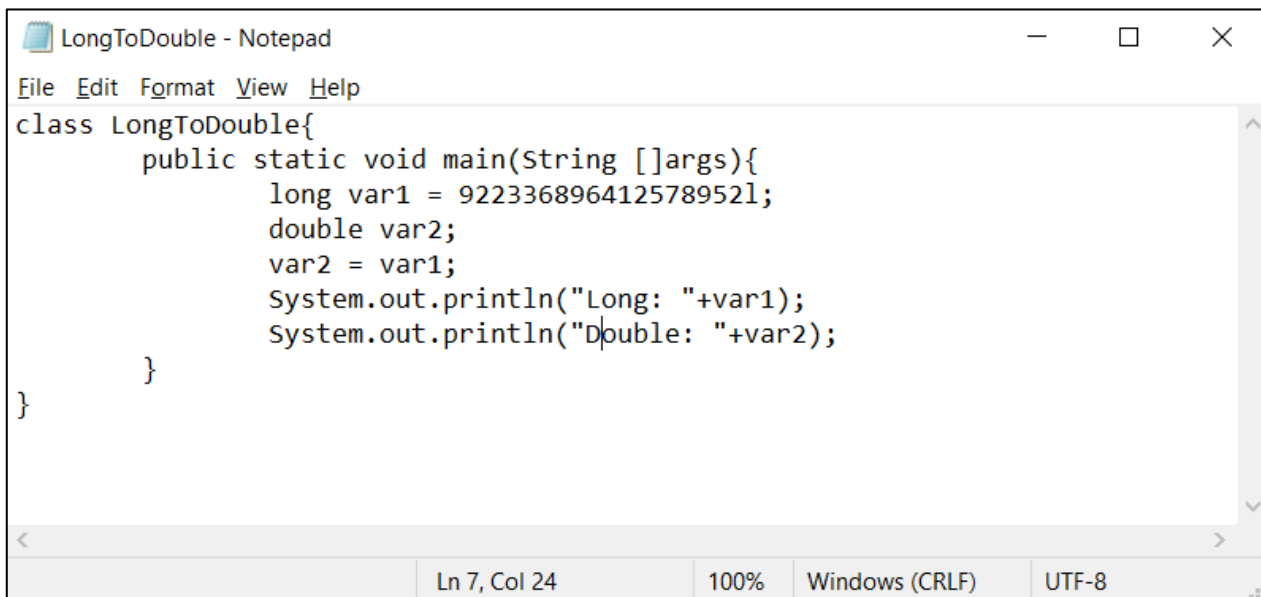
```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac LongToFloat.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java LongToFloat
Long: 922336896412578952
Float: 9.2233687E17
```

Typecasting is possible

It is implicit typecasting
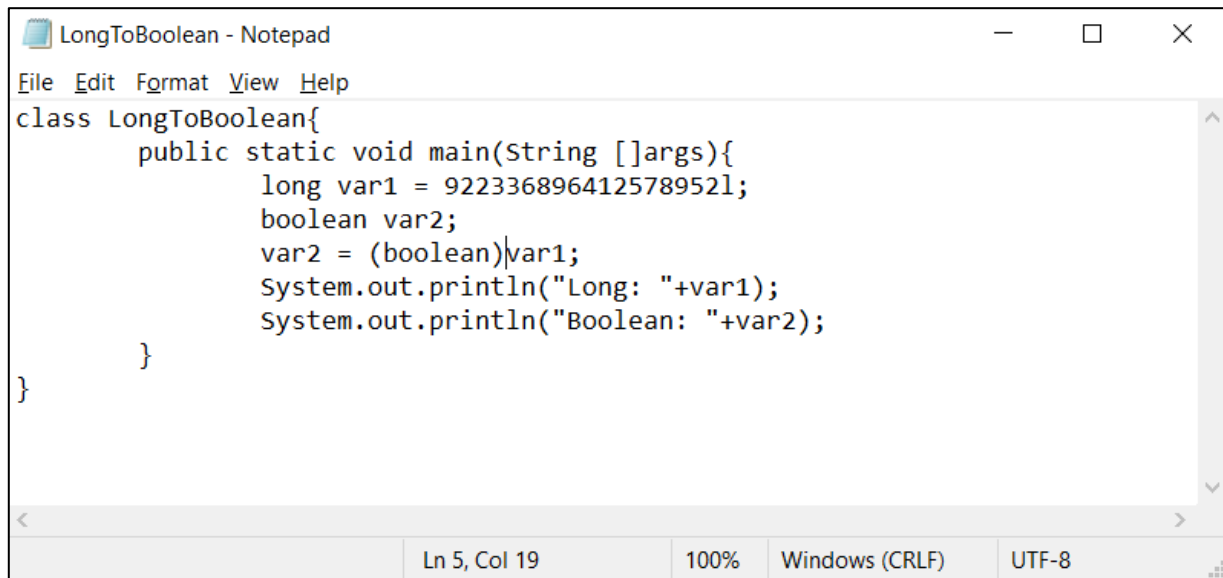
39)   long to double typecasting

```
class LongToDouble{
        public static void main(String []args){
                long var1 = 9223368964125789952l;
                double var2;
                var2 = var1;
                System.out.println("Long: "+var1);
                System.out.println("Double: "+var2);
        }
}
```

LongToDouble - Notepad

File Edit Format View Help

Ln 7, Col 24   100%   Windows (CRLF)   UTF-8

```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac LongToDouble.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java LongToDouble
Long: 922336896412578952
Double: 9.2233689641257894E17
```

Typecasting is possible

It is implicit typecasting
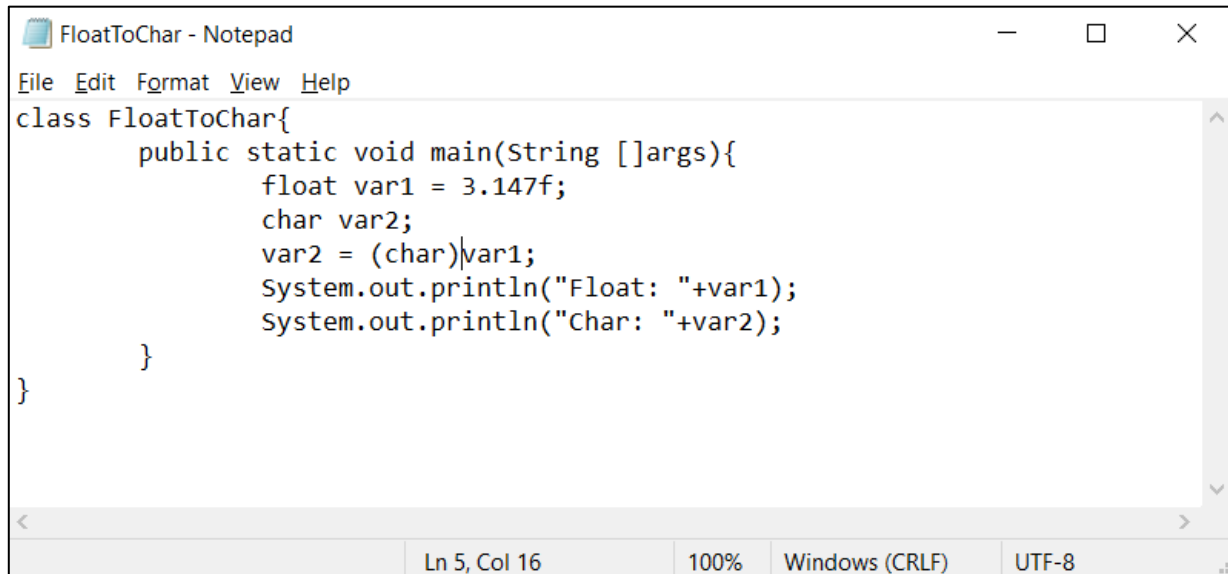
40) long to boolean typecasting

```
LongToBoolean - Notepad

File  Edit  Format  View  Help

class LongToBoolean{
        public static void main(String []args){
                long var1 = 9223368964125789952l;
                boolean var2;
                var2 = (boolean)var1;
                System.out.println("Long: "+var1);
                System.out.println("Boolean: "+var2);
        }
}

                                    Ln 5, Col 19    100%   Windows (CRLF)    UTF-8
```

```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac LongToBoolean.java
LongToBoolean.java:5: error: incompatible types: long cannot be converted to boolean
                var2 = var1;
                       ^
1 error

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac LongToBoolean.java
LongToBoolean.java:5: error: incompatible types: long cannot be converted to boolean
                var2 = (boolean)var1;
                                ^
1 error
```

Typecasting is not possible

41) float to char typecasting

```
FloatToChar - Notepad                                    —   □   ×
File  Edit  Format  View  Help
class FloatToChar{
        public static void main(String []args){
                float var1 = 3.147f;
                char var2;
                var2 = (char)var1;
                System.out.println("Float: "+var1);
                System.out.println("Char: "+var2);
        }
}
                        Ln 5, Col 16        100%   Windows (CRLF)   UTF-8
```

```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac FloatToChar.java
FloatToChar.java:5: error: incompatible types: possible lossy conversion from float to char
            var2 = var1;
                   ^
1 error

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac FloatToChar.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java FloatToChar
Float: 3.147
Char: ♥
```
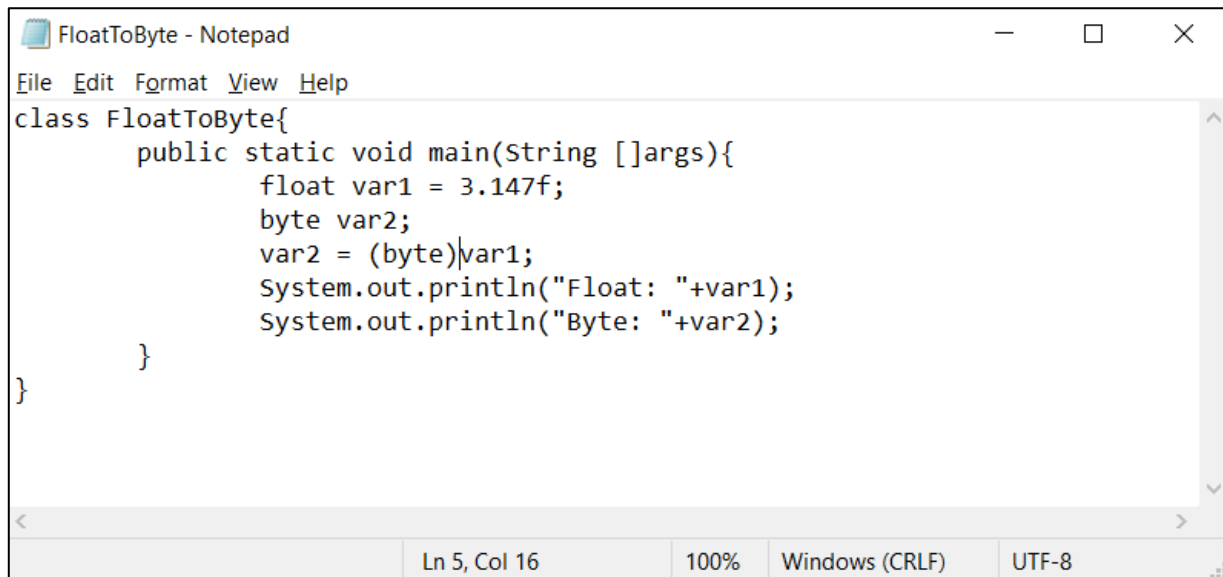
Typecasting is possible

It is explicit typecasting

42) float to byte typecasting

```
FloatToByte - Notepad                                    —    □    ×
File Edit Format View Help
class FloatToByte{
        public static void main(String []args){
                float var1 = 3.147f;
                byte var2;
                var2 = (byte)var1;
                System.out.println("Float: "+var1);
                System.out.println("Byte: "+var2);
        }
}

                        Ln 5, Col 16    100%   Windows (CRLF)   UTF-8
```

```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac FloatToByte.java
FloatToByte.java:5: error: incompatible types: possible lossy conversion from float to byte
                var2 = var1;
                       ^
1 error

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac FloatToByte.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java FloatToByte
Float: 3.147
Byte: 3
```
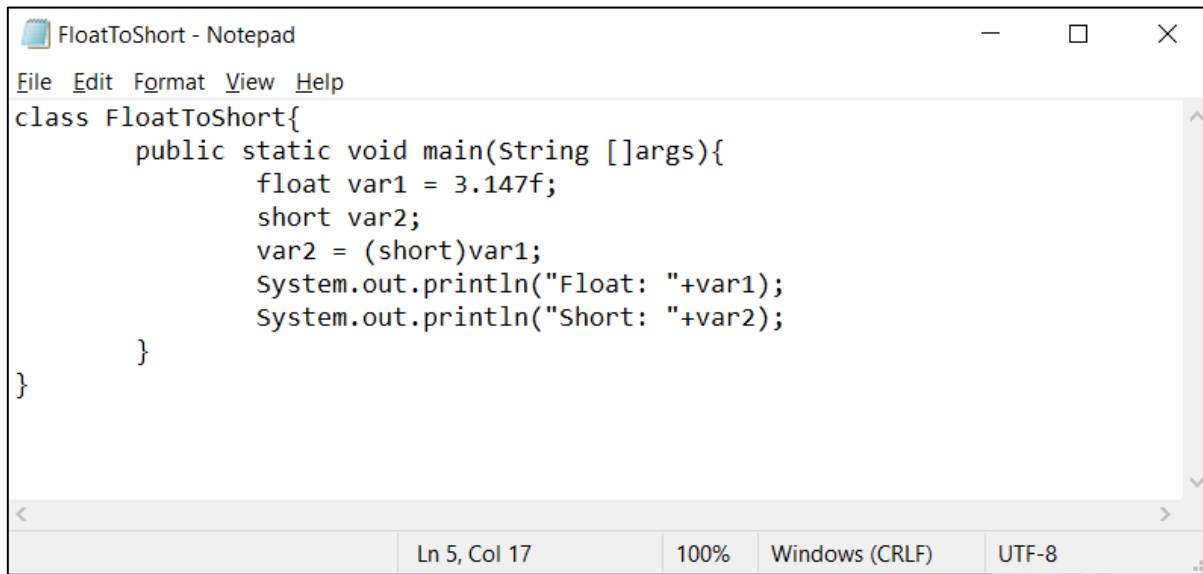
Typecasting is possible

It is explicit typecasting

43) float to short typecasting

```
FloatToShort - Notepad                                    —    □    ×
File  Edit  Format  View  Help
class FloatToShort{
        public static void main(String []args){
                float var1 = 3.147f;
                short var2;
                var2 = (short)var1;
                System.out.println("Float: "+var1);
                System.out.println("Short: "+var2);
        }
}

                        Ln 5, Col 17      100%   Windows (CRLF)    UTF-8
```

```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac FloatToShort.java
FloatToShort.java:5: error: incompatible types: possible lossy conversion from float to short
                var2 = var1;
                       ^
1 error

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac FloatToShort.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java FloatToShort
Float: 3.147
Short: 3
```
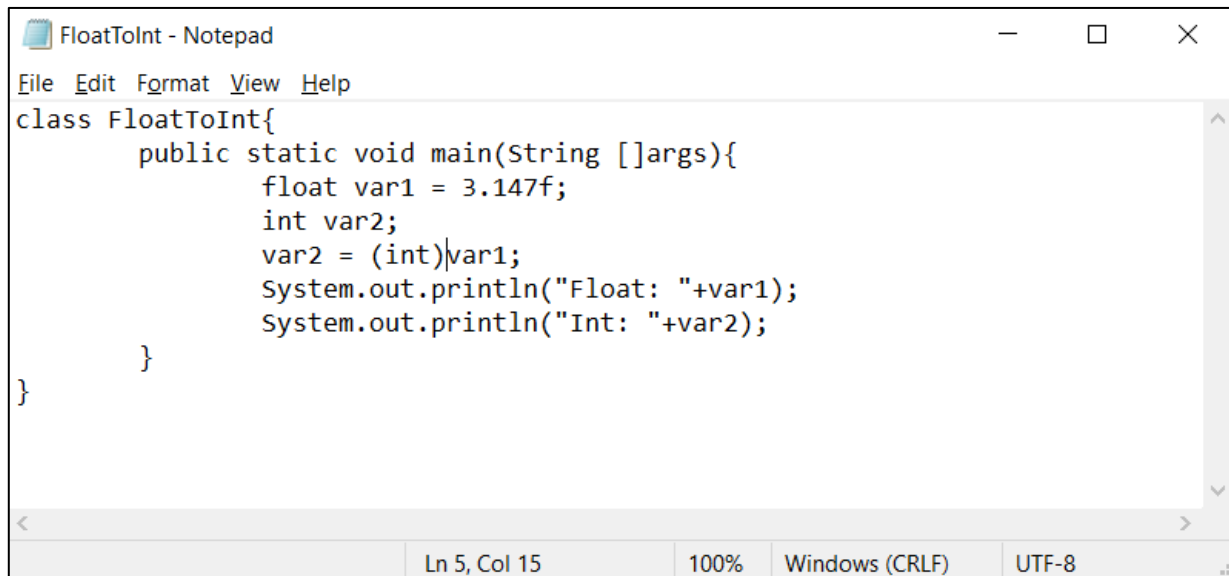
Typecasting is possible

It is explicit typecasting

44)   float to int typecasting

```
FloatToInt - Notepad                               —    □    ×
File  Edit  Format  View  Help
class FloatToInt{
        public static void main(String []args){
                float var1 = 3.147f;
                int var2;
                var2 = (int)var1;
                System.out.println("Float: "+var1);
                System.out.println("Int: "+var2);
        }
}

                        Ln 5, Col 15      100%   Windows (CRLF)   UTF-8
```

```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac FloatToInt.java
FloatToInt.java:5: error: incompatible types: possible lossy conversion from float to int
                var2 = var1;
                       ^
1 error

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac FloatToInt.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java FloatToInt
Float: 3.147
Int: 3
```
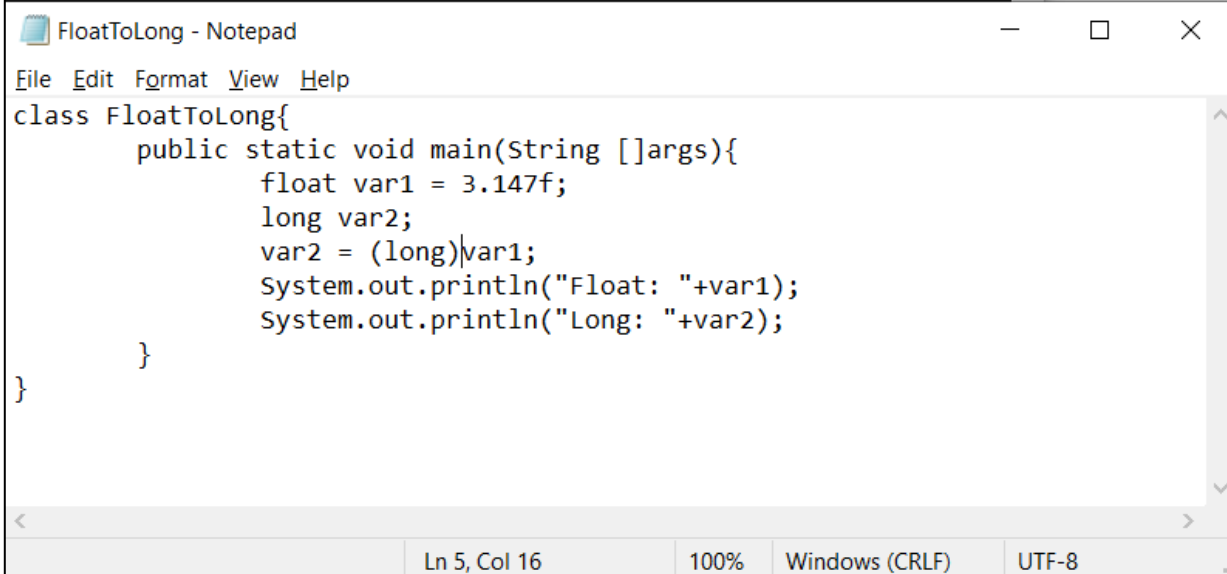
Typecasting is possible

It is explicit typecasting

45) float to long typecasting

```
FloatToLong - Notepad                                    —    □    ×
File  Edit  Format  View  Help
class FloatToLong{
        public static void main(String []args){
                float var1 = 3.147f;
                long var2;
                var2 = (long)var1;
                System.out.println("Float: "+var1);
                System.out.println("Long: "+var2);
        }
}
                                    Ln 5, Col 16    100%    Windows (CRLF)    UTF-8
```

```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac FloatToLong.java
FloatToLong.java:5: error: incompatible types: possible lossy conversion from float to long
                var2 = var1;
                       ^
1 error

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac FloatToLong.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java FloatToLong
Float: 3.147
Long: 3
```
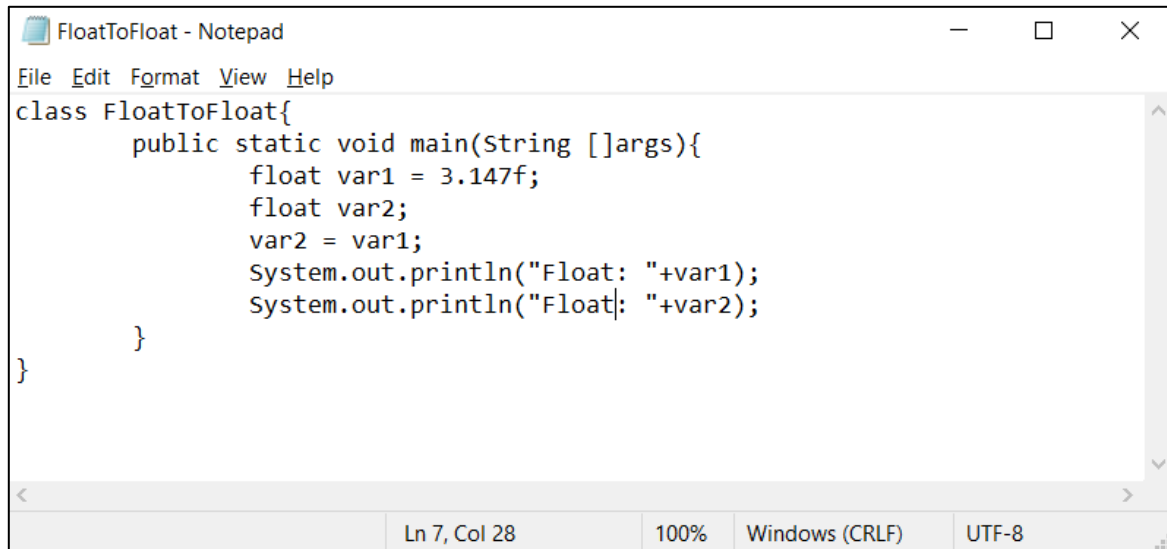
Typecasting is possible

It is explicit typecasting
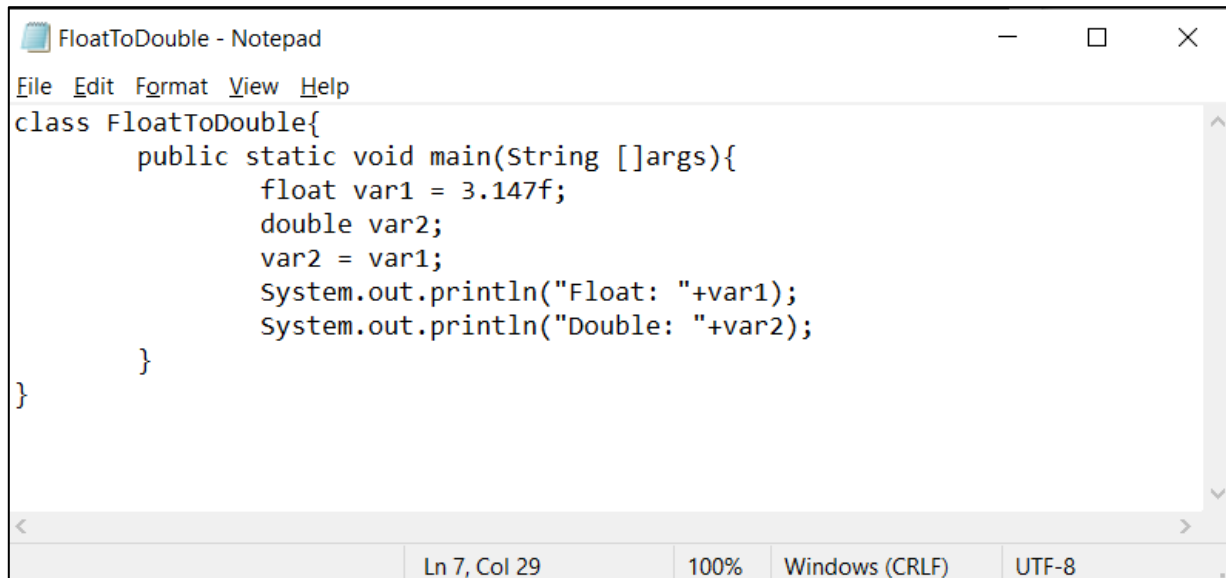
46)   float to float typecasting

```
class FloatToFloat{
        public static void main(String []args){
                float var1 = 3.147f;
                float var2;
                var2 = var1;
                System.out.println("Float: "+var1);
                System.out.println("Float: "+var2);
        }
}
```

FloatToFloat - Notepad

File Edit Format View Help

Ln 7, Col 28   100%   Windows (CRLF)   UTF-8

```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac FloatToFloat.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java FloatToFloat
Float: 3.147
Float: 3.147
```

No Typecasting is required

47)   float to double typecasting

```
FloatToDouble - Notepad                                    —    □    ×
File  Edit  Format  View  Help
class FloatToDouble{
        public static void main(String []args){
                float var1 = 3.147f;
                double var2;
                var2 = var1;
                System.out.println("Float: "+var1);
                System.out.println("Double: "+var2);
        }
}
                          Ln 7, Col 29      100%   Windows (CRLF)    UTF-8
```
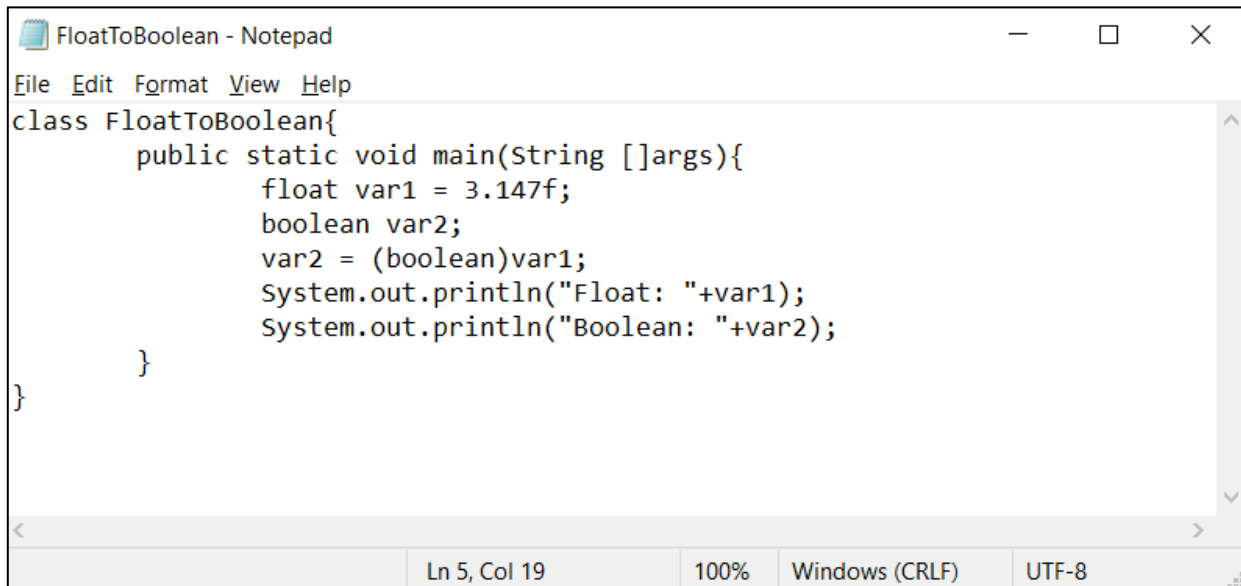
```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac FloatToDouble.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java FloatToDouble
Float: 3.147
Double: 3.1470000743865967
```

Typecasting is possible

It is implicit typecasting

48)   float to boolean typecasting

```
FloatToBoolean - Notepad                                    —    □    ×

File  Edit  Format  View  Help
class FloatToBoolean{
        public static void main(String []args){
                float var1 = 3.147f;
                boolean var2;
                var2 = (boolean)var1;
                System.out.println("Float: "+var1);
                System.out.println("Boolean: "+var2);
        }
}

                    Ln 5, Col 19      100%  Windows (CRLF)   UTF-8
```
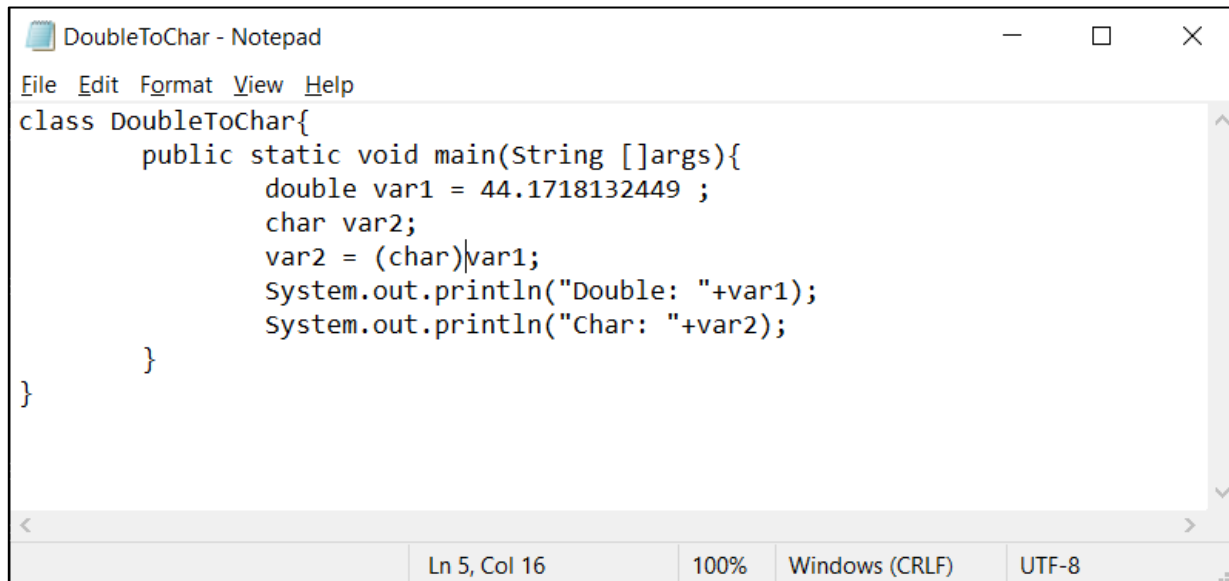
```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac FloatToBoolean.java
FloatToBoolean.java:5: error: incompatible types: float cannot be converted to boolean
            var2 = var1;
                   ^
1 error

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac FloatToBoolean.java
FloatToBoolean.java:5: error: incompatible types: float cannot be converted to boolean
            var2 = (boolean)var1;
                            ^
1 error
```

Typecasting is not possible

\

49) double to char typecasting

```
DoubleToChar - Notepad                              —    □    ×

File  Edit  Format  View  Help
class DoubleToChar{
        public static void main(String []args){
                double var1 = 44.1718132449 ;
                char var2;
                var2 = (char)var1;
                System.out.println("Double: "+var1);
                System.out.println("Char: "+var2);
        }
}

                        Ln 5, Col 16    100%   Windows (CRLF)    UTF-8
```

```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac DoubleToChar.java
DoubleToChar.java:5: error: incompatible types: possible lossy conversion from double to char
                var2 = var1;
                       ^
1 error

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac DoubleToChar.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java DoubleToChar
Double: 44.1718132449
Char: ,
```
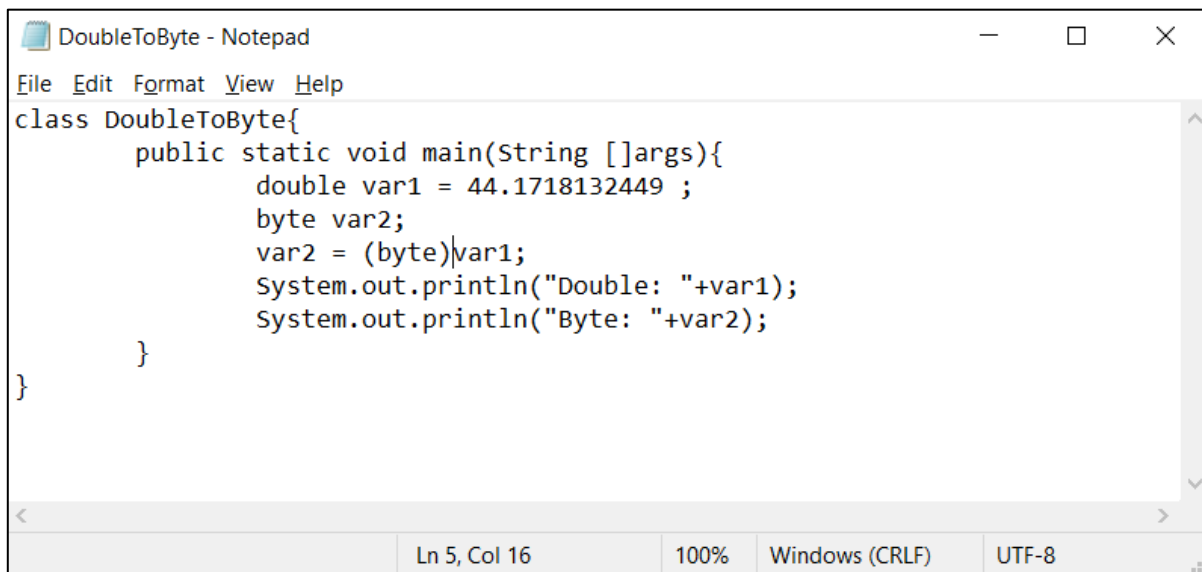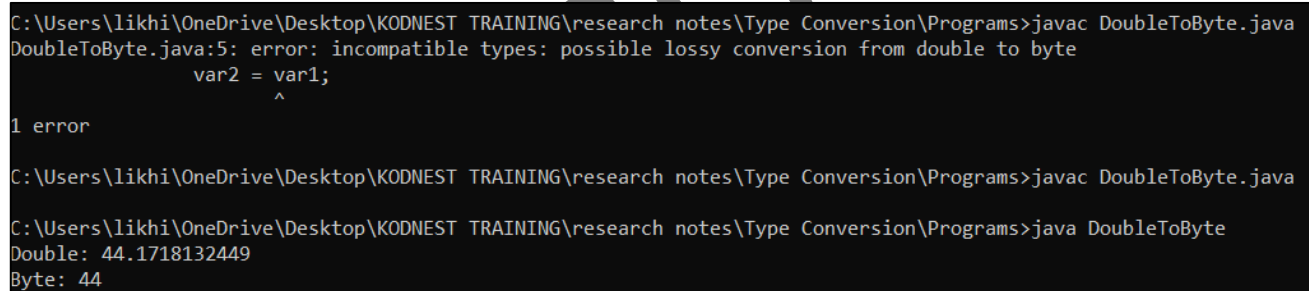
Typecasting is possible

It is explicit typecasting

50)   double to byte typecasting

```
DoubleToByte - Notepad                                    —    □    ×
File  Edit  Format  View  Help
class DoubleToByte{
        public static void main(String []args){
                double var1 = 44.1718132449 ;
                byte var2;
                var2 = (byte)var1;
                System.out.println("Double: "+var1);
                System.out.println("Byte: "+var2);
        }
}

                                    Ln 5, Col 16    100%   Windows (CRLF)   UTF-8
```

```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac DoubleToByte.java
DoubleToByte.java:5: error: incompatible types: possible lossy conversion from double to byte
            var2 = var1;
                   ^
1 error

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac DoubleToByte.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java DoubleToByte
Double: 44.1718132449
Byte: 44
```
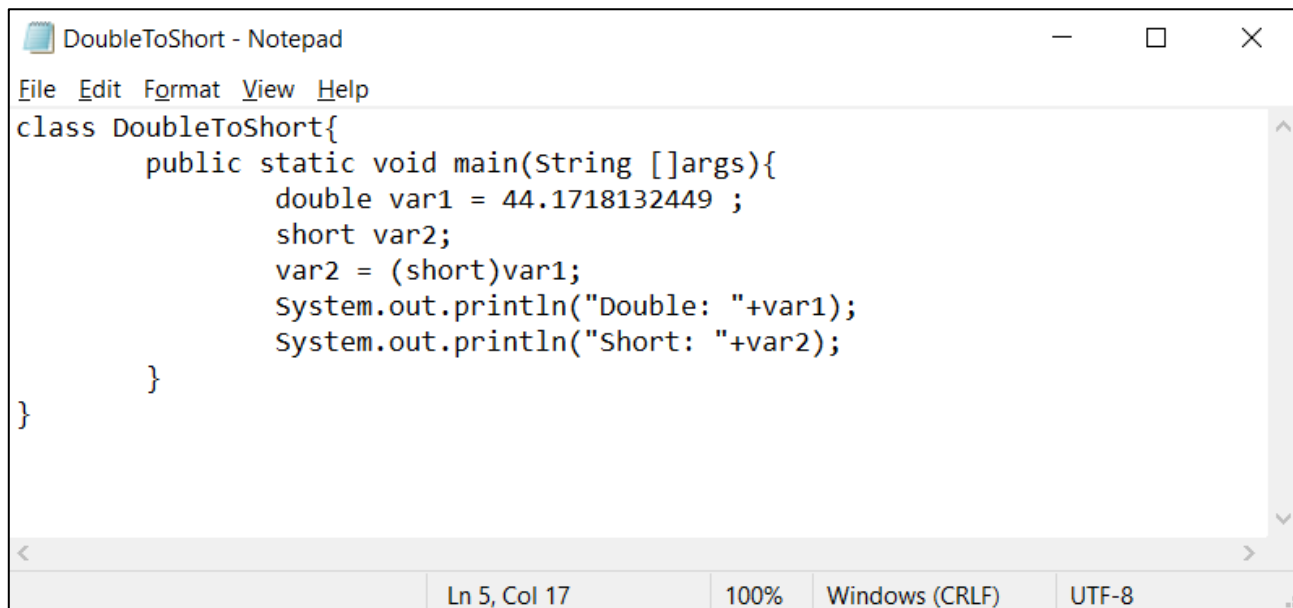
Typecasting is possible

It is explicit typecasting

51) double to short typecasting

```
DoubleToShort - Notepad                                    —   □   ✕
File  Edit  Format  View  Help
class DoubleToShort{
        public static void main(String []args){
                double var1 = 44.1718132449 ;
                short var2;
                var2 = (short)var1;
                System.out.println("Double: "+var1);
                System.out.println("Short: "+var2);
        }
}

                    Ln 5, Col 17        100%   Windows (CRLF)    UTF-8
```

```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac DoubleToShort.java
DoubleToShort.java:5: error: incompatible types: possible lossy conversion from double to short
            var2 = var1;
                   ^
1 error

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac DoubleToShort.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java DoubleToShort
Double: 44.1718132449
Short: 44
```
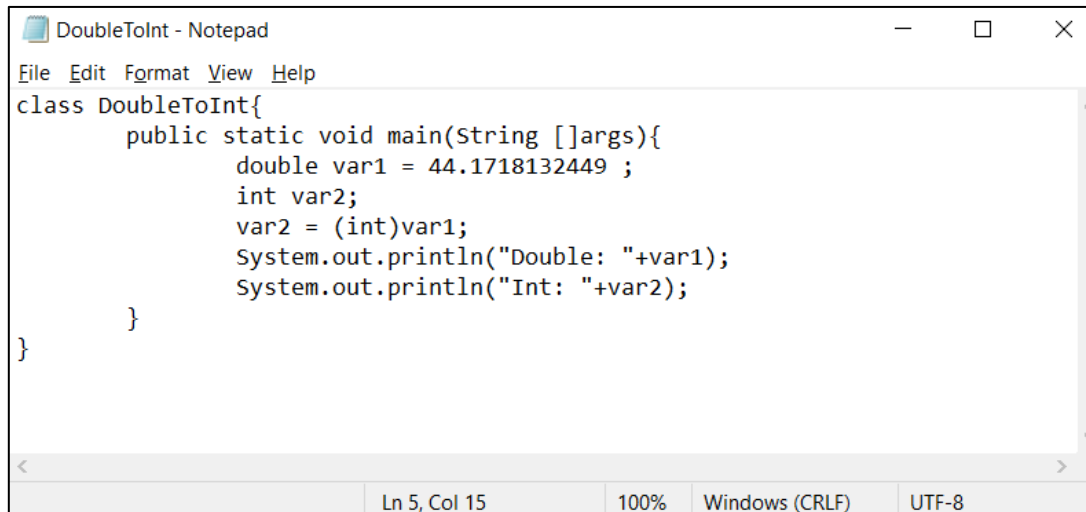
Typecasting is possible

It is explicit typecasting

52)   double to int typecasting

```
DoubleToInt - Notepad
File  Edit  Format  View  Help
class DoubleToInt{
        public static void main(String []args){
                double var1 = 44.1718132449 ;
                int var2;
                var2 = (int)var1;
                System.out.println("Double: "+var1);
                System.out.println("Int: "+var2);
        }
}
                                    Ln 5, Col 15       100%   Windows (CRLF)     UTF-8
```

```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac DoubleToInt.java
DoubleToInt.java:5: error: incompatible types: possible lossy conversion from double to int
            var2 = var1;
                   ^
1 error

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac DoubleToInt.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java DoubleToInt
Double: 44.1718132449
Int: 44
```
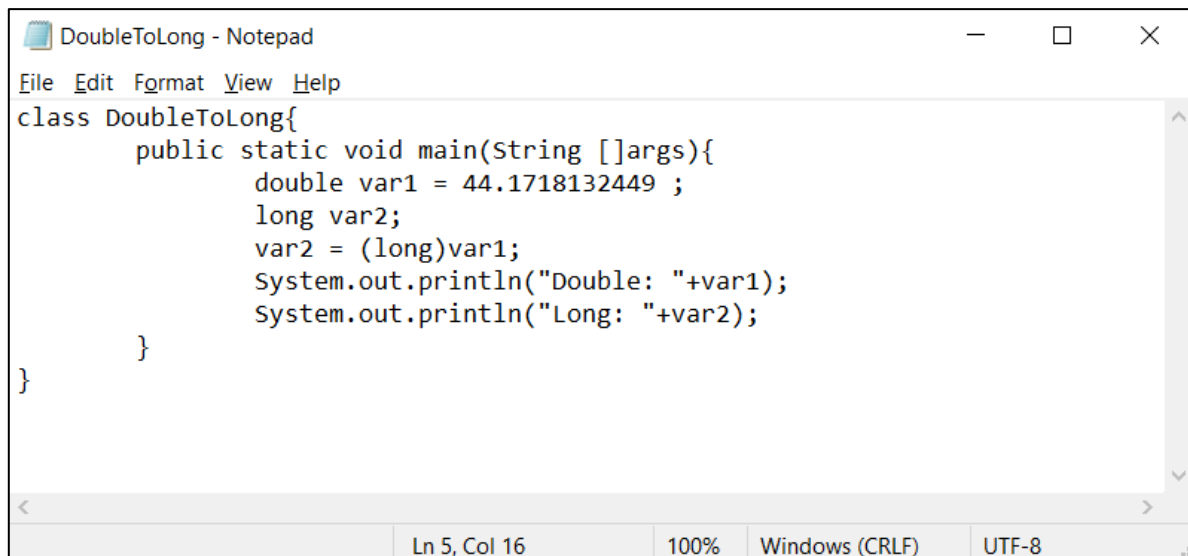
Typecasting is possible

It is explicit typecasting

53) double to long typecasting

```
DoubleToLong - Notepad                                          —    □    ×
File  Edit  Format  View  Help
class DoubleToLong{
        public static void main(String []args){
                double var1 = 44.1718132449 ;
                long var2;
                var2 = (long)var1;
                System.out.println("Double: "+var1);
                System.out.println("Long: "+var2);
        }
}

                        Ln 5, Col 16      100%   Windows (CRLF)   UTF-8
```

```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac DoubleToLong.java
DoubleToLong.java:5: error: incompatible types: possible lossy conversion from double to long
            var2 = var1;
                   ^
1 error

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac DoubleToLong.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java DoubleToLong
Double: 44.1718132449
Long: 44
```
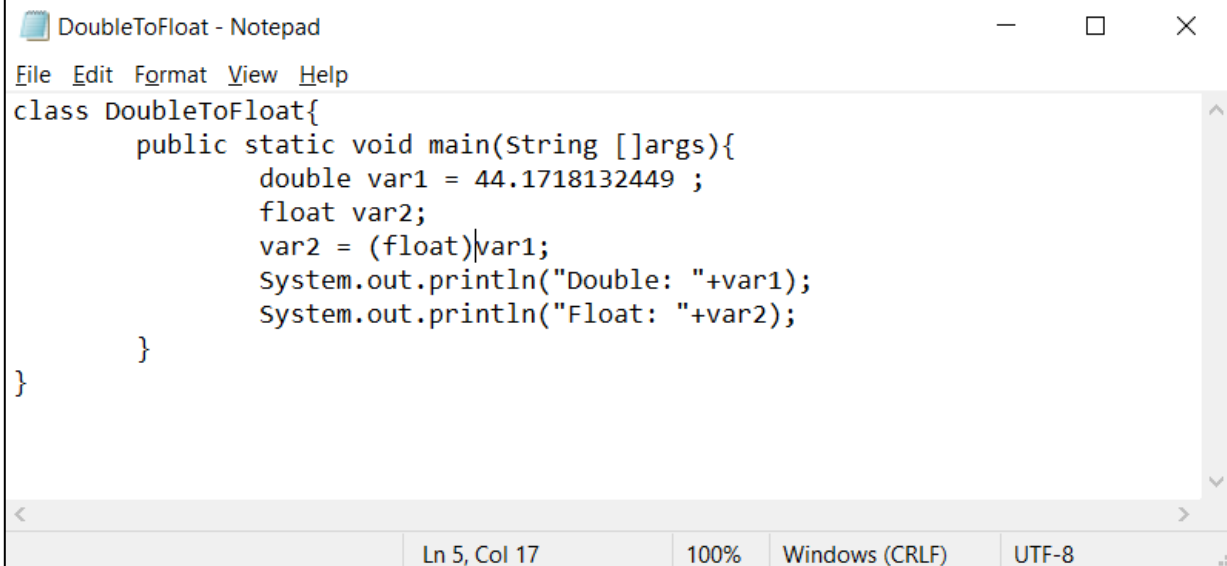
Typecasting is possible

It is explicit typecasting

54)   double to float typecasting

```
DoubleToFloat - Notepad                                    —   □   ×
File  Edit  Format  View  Help
class DoubleToFloat{
        public static void main(String []args){
                double var1 = 44.1718132449 ;
                float var2;
                var2 = (float)var1;
                System.out.println("Double: "+var1);
                System.out.println("Float: "+var2);
        }
}
                              Ln 5, Col 17    100%   Windows (CRLF)   UTF-8
```
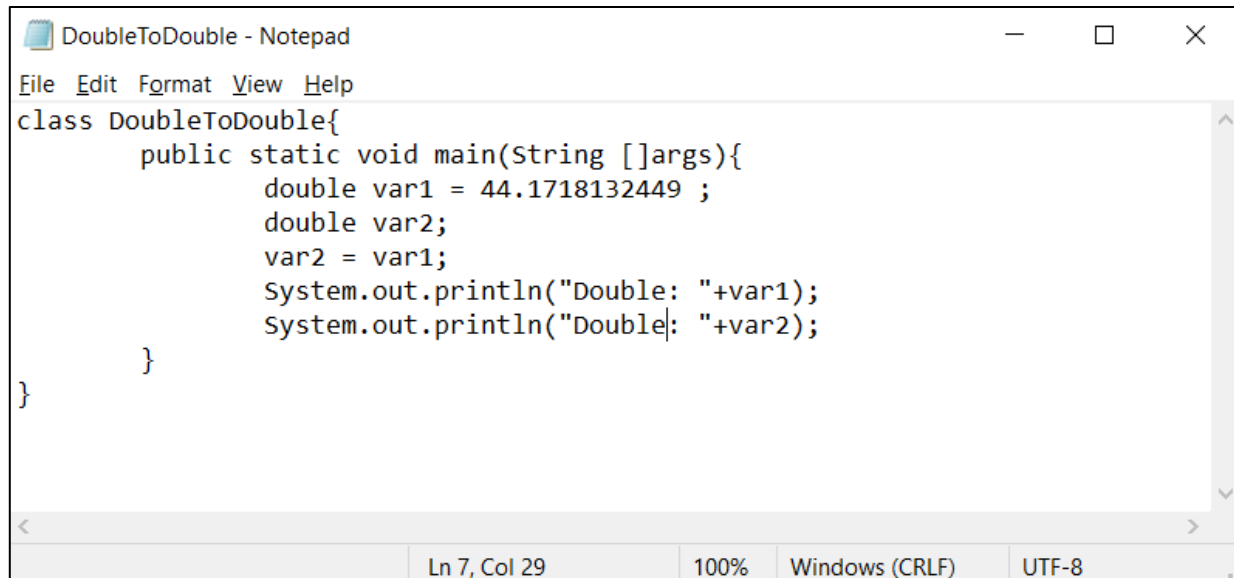
```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac DoubleToFloat.java
DoubleToFloat.java:5: error: incompatible types: possible lossy conversion from double to float
            var2 = var1;
                   ^
1 error

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac DoubleToFloat.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java DoubleToFloat
Double: 44.1718132449
Float: 44.171814
```

Typecasting is possible

It is explicit typecasting

55) double to double typecasting
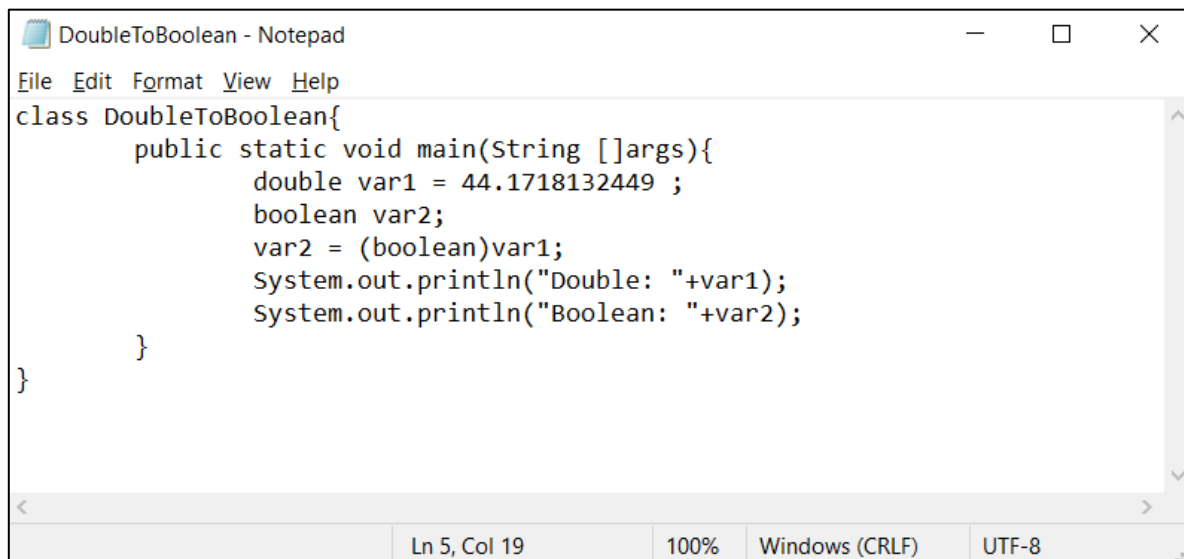
```
class DoubleToDouble{
        public static void main(String []args){
                double var1 = 44.1718132449 ;
                double var2;
                var2 = var1;
                System.out.println("Double: "+var1);
                System.out.println("Double: "+var2);
        }
}
```

```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac DoubleToDouble.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java DoubleToDouble
Double: 44.1718132449
Double: 44.1718132449
```
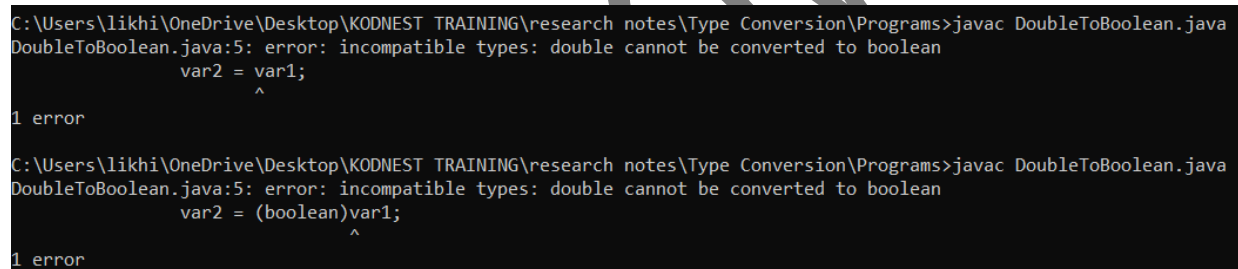
No Typecasting is required

56) double to boolean typecasting

```
DoubleToBoolean - Notepad
File  Edit  Format  View  Help
class DoubleToBoolean{
        public static void main(String []args){
                double var1 = 44.1718132449 ;
                boolean var2;
                var2 = (boolean)var1;
                System.out.println("Double: "+var1);
                System.out.println("Boolean: "+var2);
        }
}
                                          Ln 5, Col 19    100%    Windows (CRLF)    UTF-8
```
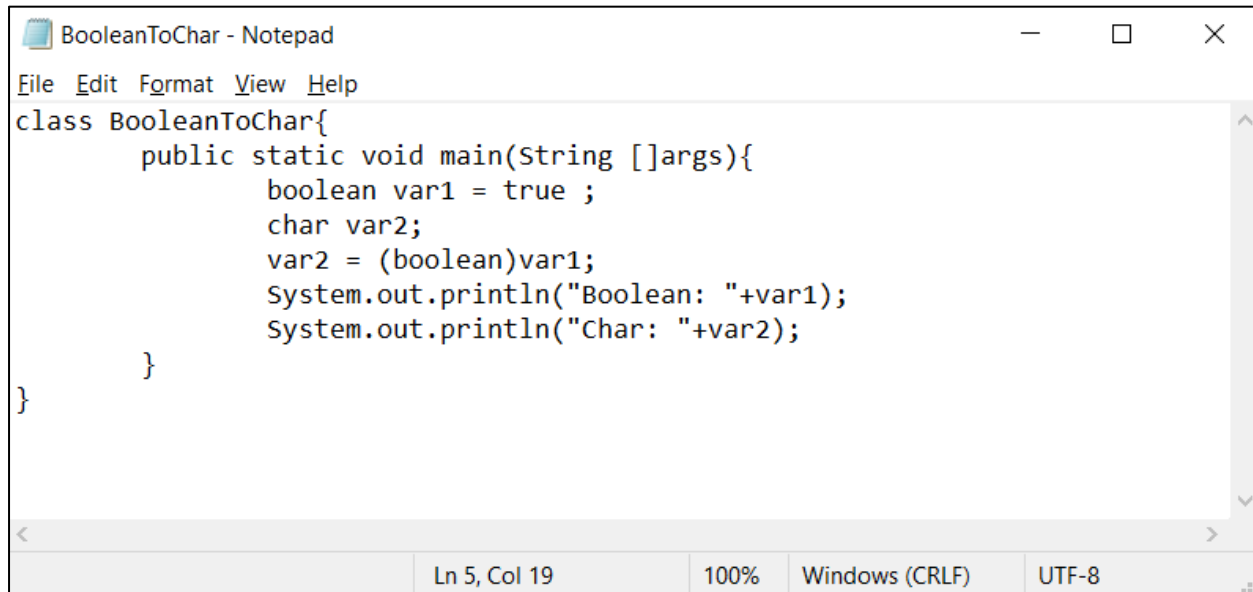
```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac DoubleToBoolean.java
DoubleToBoolean.java:5: error: incompatible types: double cannot be converted to boolean
            var2 = var1;
                   ^
1 error

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac DoubleToBoolean.java
DoubleToBoolean.java:5: error: incompatible types: double cannot be converted to boolean
            var2 = (boolean)var1;
                            ^
1 error
```

Typecasting is not possible

57)   boolean to char typecasting

```
BooleanToChar - Notepad                                    —    □    ×
File  Edit  Format  View  Help
class BooleanToChar{
        public static void main(String []args){
                boolean var1 = true ;
                char var2;
                var2 = (boolean)var1;
                System.out.println("Boolean: "+var1);
                System.out.println("Char: "+var2);
        }
}

                        Ln 5, Col 19        100%    Windows (CRLF)    UTF-8
```
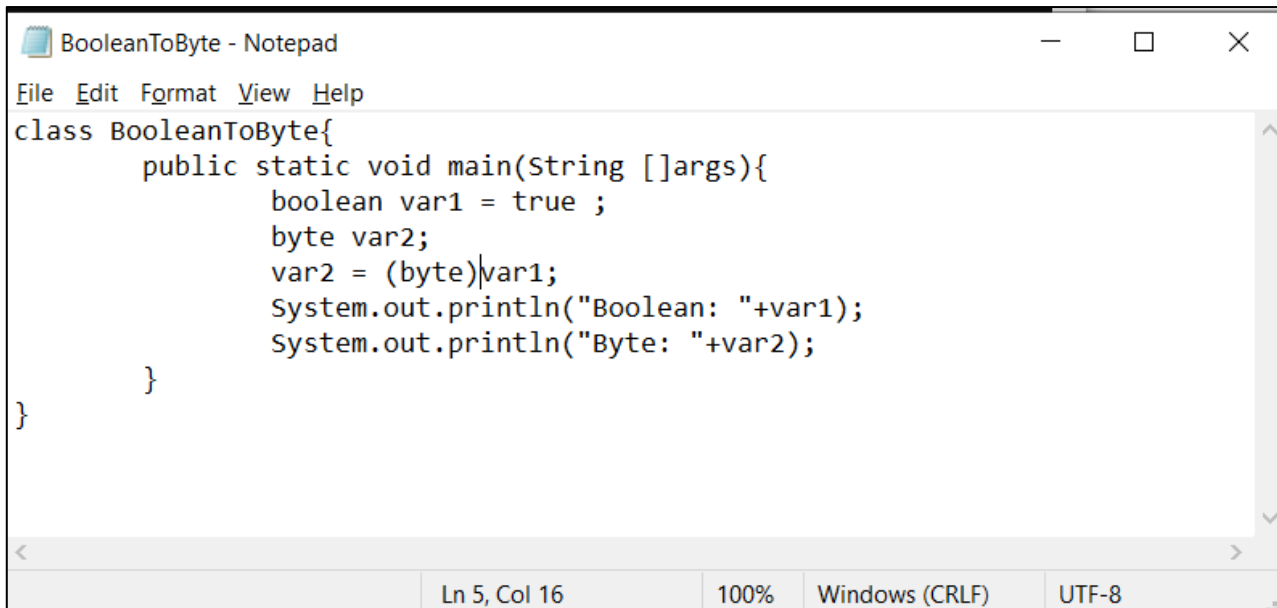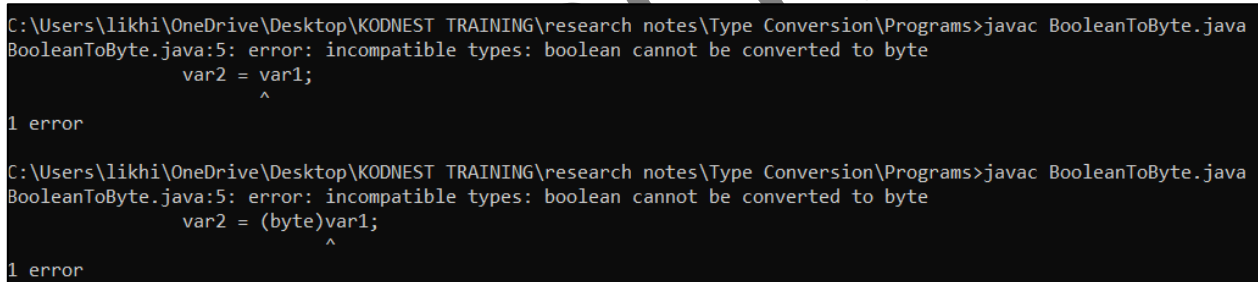
```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac BooleanToChar.java
BooleanToChar.java:5: error: incompatible types: boolean cannot be converted to char
                var2 = var1;
                       ^
1 error

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac BooleanToChar.java
BooleanToChar.java:5: error: incompatible types: boolean cannot be converted to char
                var2 = (boolean)var1;
                       ^
1 error
```

Typecasting is not possible

58) boolean to byte typecasting

```
BooleanToByte - Notepad                                    —    □    ×
File  Edit  Format  View  Help
class BooleanToByte{
        public static void main(String []args){
                boolean var1 = true ;
                byte var2;
                var2 = (byte)var1;
                System.out.println("Boolean: "+var1);
                System.out.println("Byte: "+var2);
        }
}
                              Ln 5, Col 16    100%   Windows (CRLF)   UTF-8
```
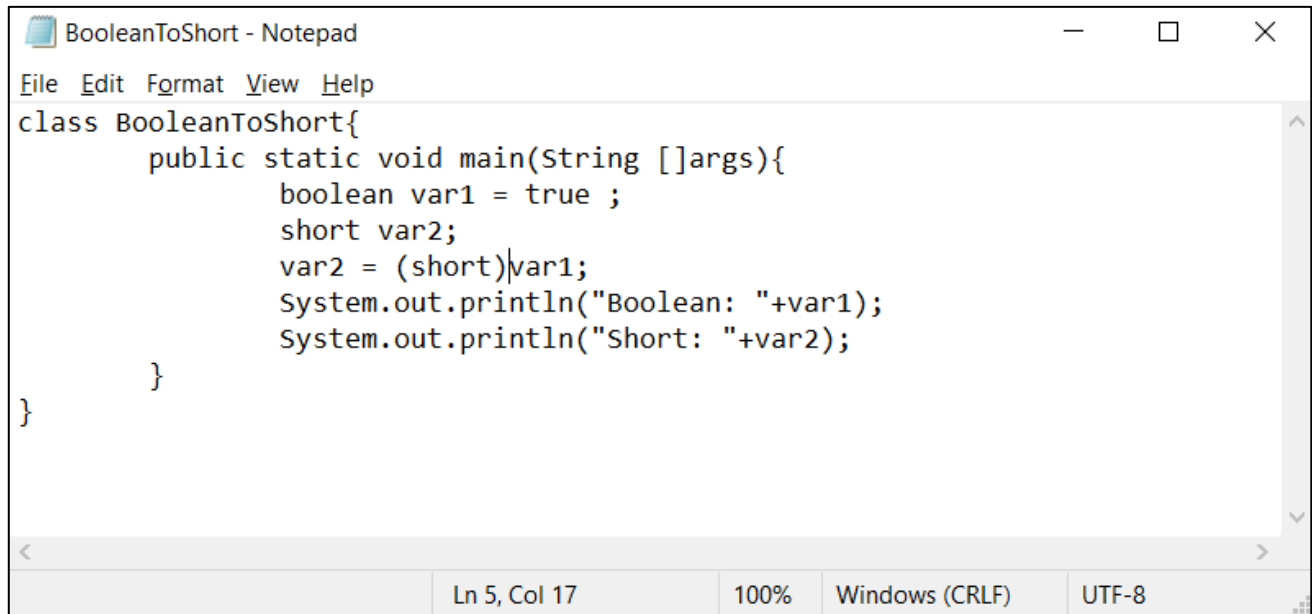
```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac BooleanToByte.java
BooleanToByte.java:5: error: incompatible types: boolean cannot be converted to byte
              var2 = var1;
                     ^
1 error

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac BooleanToByte.java
BooleanToByte.java:5: error: incompatible types: boolean cannot be converted to byte
              var2 = (byte)var1;
                           ^
1 error
```
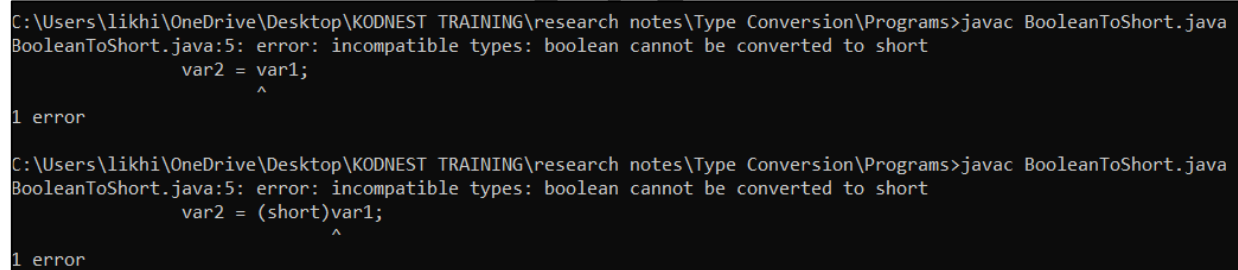
Typecasting is not possible

59) boolean to short typecasting

```
class BooleanToShort{
        public static void main(String []args){
                boolean var1 = true ;
                short var2;
                var2 = (short)var1;
                System.out.println("Boolean: "+var1);
                System.out.println("Short: "+var2);
        }
}
```
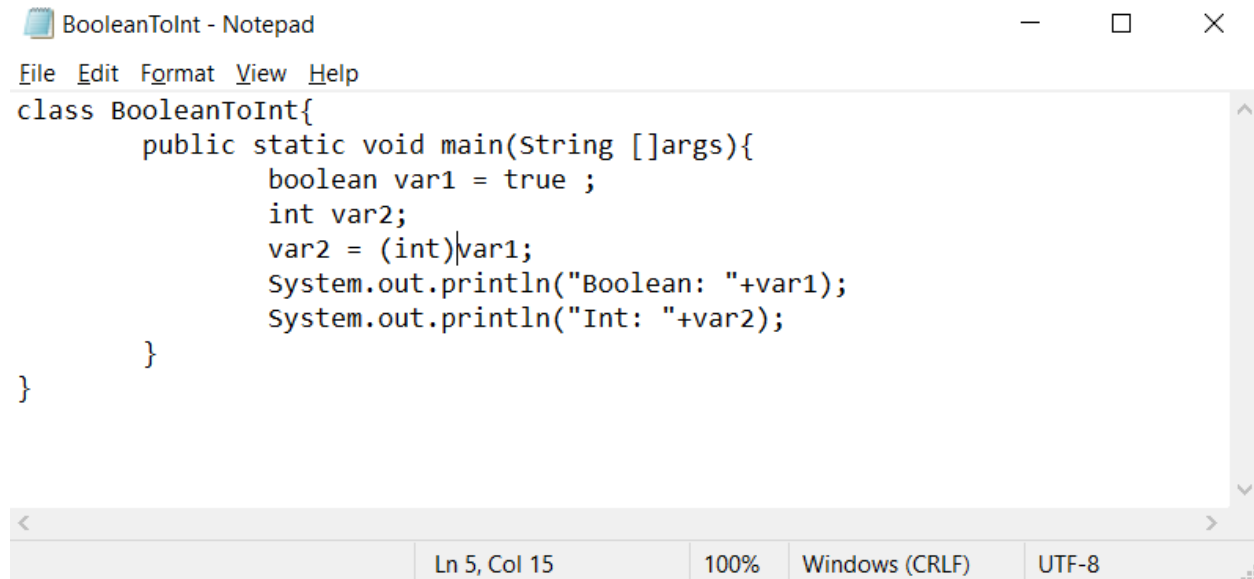
```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac BooleanToShort.java
BooleanToShort.java:5: error: incompatible types: boolean cannot be converted to short
                var2 = var1;
                       ^
1 error

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac BooleanToShort.java
BooleanToShort.java:5: error: incompatible types: boolean cannot be converted to short
                var2 = (short)var1;
                             ^
1 error
```
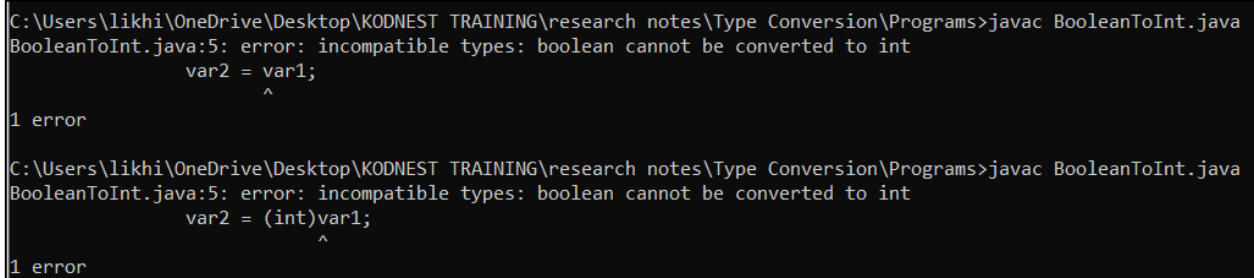
Typecasting is not possible

60)   boolean to int typecasting


```
class BooleanToInt{
        public static void main(String []args){
                boolean var1 = true ;
                int var2;
                var2 = (int)var1;
                System.out.println("Boolean: "+var1);
                System.out.println("Int: "+var2);
        }
}
```

BooleanToInt - Notepad

File Edit Format View Help
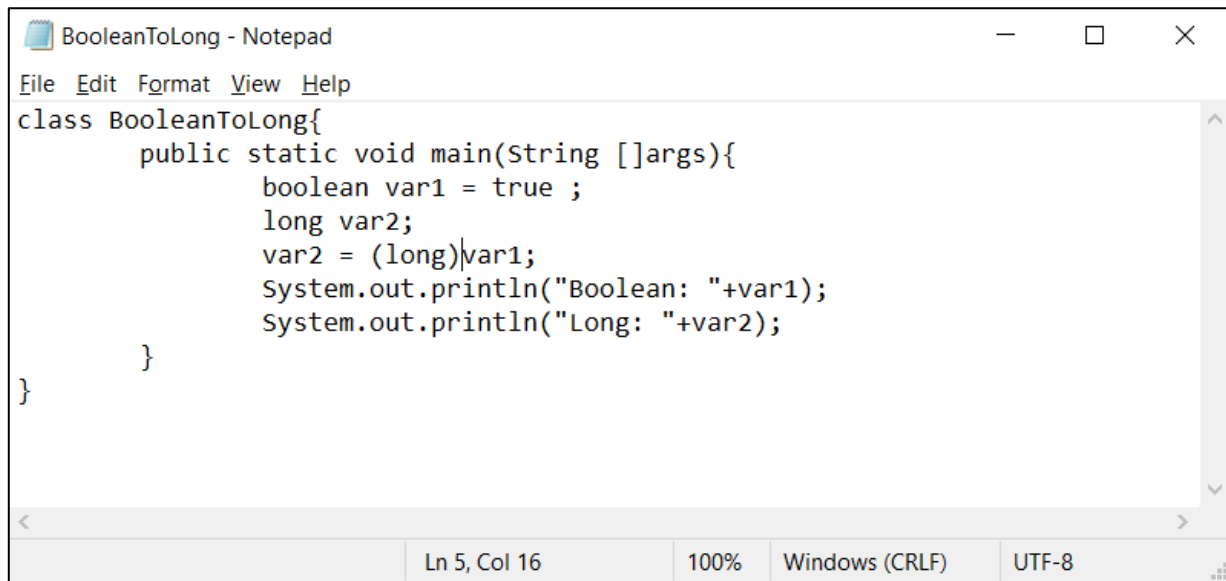
Ln 5, Col 15   100%   Windows (CRLF)   UTF-8

```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac BooleanToInt.java
BooleanToInt.java:5: error: incompatible types: boolean cannot be converted to int
            var2 = var1;
                   ^
1 error

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac BooleanToInt.java
BooleanToInt.java:5: error: incompatible types: boolean cannot be converted to int
            var2 = (int)var1;
                        ^
1 error
```
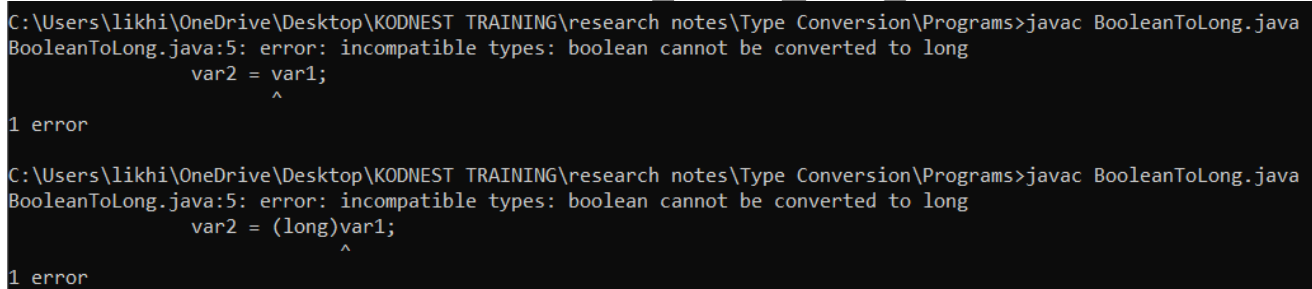
Typecasting is not possible

61) boolean to long typecasting

```
BooleanToLong - Notepad                              —    □    ×
File  Edit  Format  View  Help
class BooleanToLong{
        public static void main(String []args){
                boolean var1 = true ;
                long var2;
                var2 = (long)var1;
                System.out.println("Boolean: "+var1);
                System.out.println("Long: "+var2);
        }
}
                    Ln 5, Col 16    100%   Windows (CRLF)   UTF-8
```
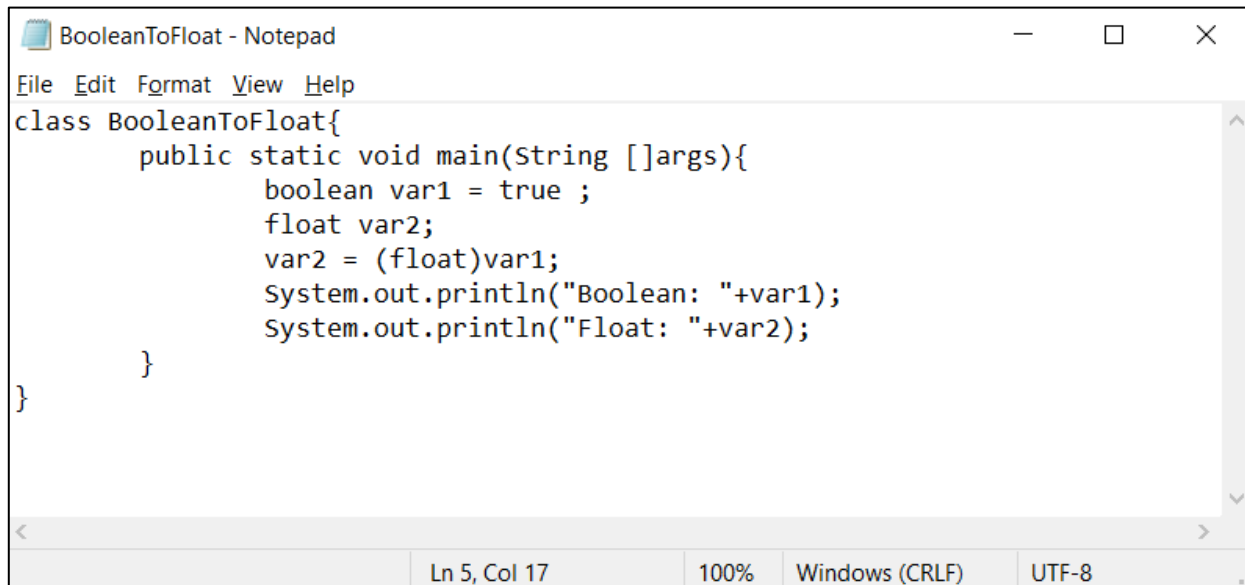
```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac BooleanToLong.java
BooleanToLong.java:5: error: incompatible types: boolean cannot be converted to long
            var2 = var1;
                   ^
1 error

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac BooleanToLong.java
BooleanToLong.java:5: error: incompatible types: boolean cannot be converted to long
            var2 = (long)var1;
                         ^
1 error
```
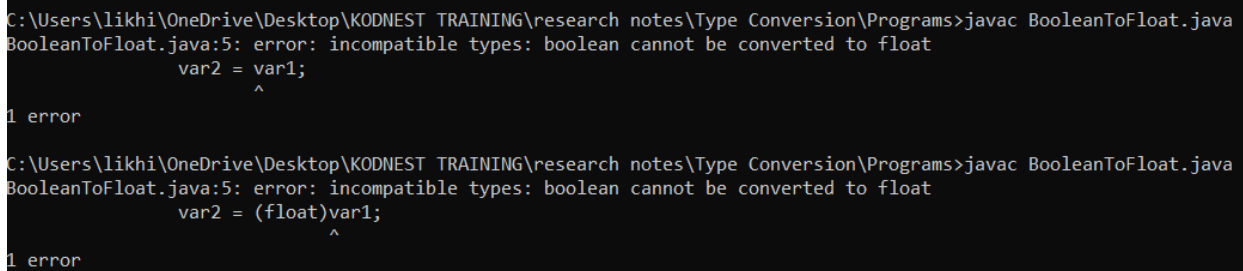
Typecasting is not possible

62)   boolean to float typecasting

```
BooleanToFloat - Notepad                                    —    □    ×
File  Edit  Format  View  Help
class BooleanToFloat{
        public static void main(String []args){
                boolean var1 = true ;
                float var2;
                var2 = (float)var1;
                System.out.println("Boolean: "+var1);
                System.out.println("Float: "+var2);
        }
}

                        Ln 5, Col 17    100%   Windows (CRLF)   UTF-8
```

```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac BooleanToFloat.java
BooleanToFloat.java:5: error: incompatible types: boolean cannot be converted to float
            var2 = var1;
                   ^
1 error

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac BooleanToFloat.java
BooleanToFloat.java:5: error: incompatible types: boolean cannot be converted to float
            var2 = (float)var1;
                          ^
1 error
```
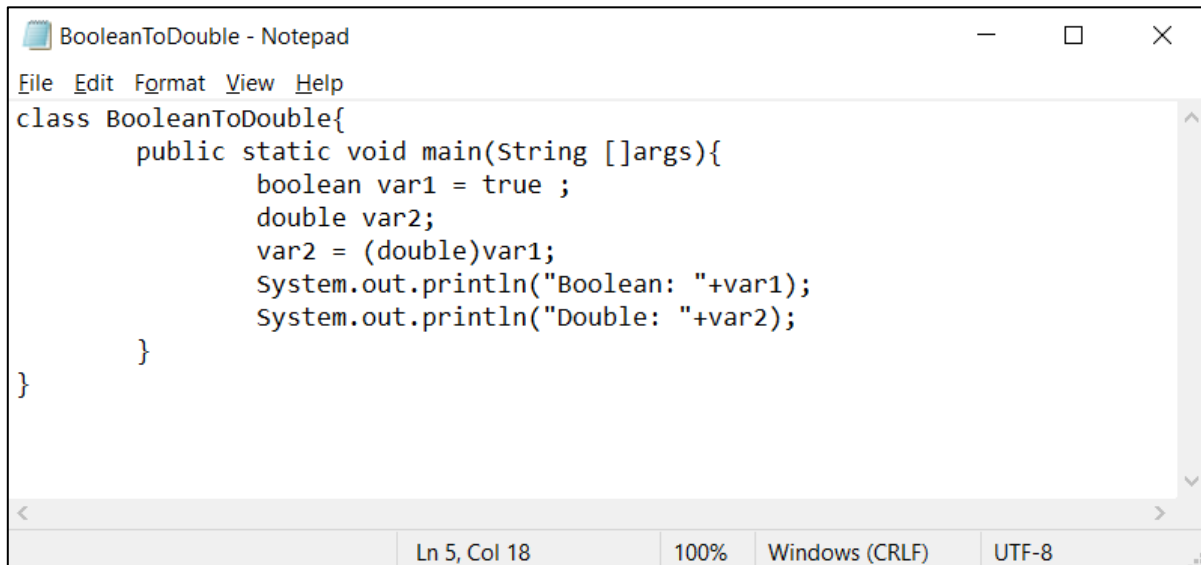
Typecasting is not possible

63) boolean to double typecasting

```
BooleanToDouble - Notepad                          —    □    ×
File  Edit  Format  View  Help
class BooleanToDouble{
        public static void main(String []args){
                boolean var1 = true ;
                double var2;
                var2 = (double)var1;
                System.out.println("Boolean: "+var1);
                System.out.println("Double: "+var2);
        }
}
                        Ln 5, Col 18    100%   Windows (CRLF)   UTF-8
```
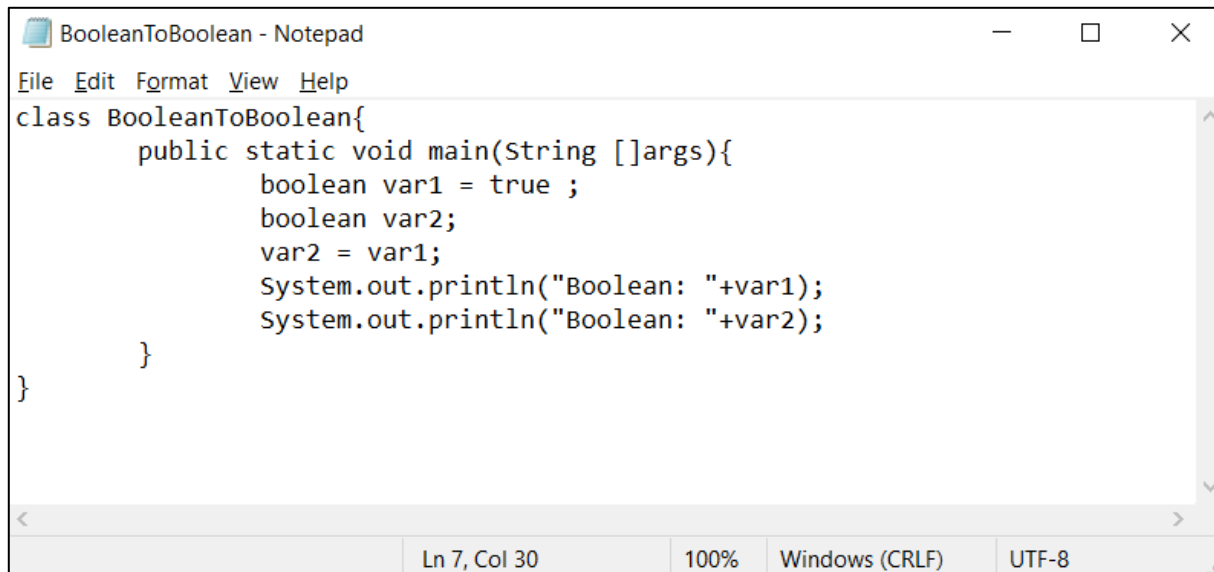
```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac BooleanToDouble.java
BooleanToDouble.java:5: error: incompatible types: boolean cannot be converted to double
            var2 = var1;
                   ^
1 error

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac BooleanToDouble.java
BooleanToDouble.java:5: error: incompatible types: boolean cannot be converted to double
            var2 = (double)var1;
                          ^
1 error
```

Typecasting is not possible

64)   boolean to boolean typecasting

```
BooleanToBoolean - Notepad

File  Edit  Format  View  Help

class BooleanToBoolean{
        public static void main(String []args){
                boolean var1 = true ;
                boolean var2;
                var2 = var1;
                System.out.println("Boolean: "+var1);
                System.out.println("Boolean: "+var2);
        }
}

                            Ln 7, Col 30      100%    Windows (CRLF)    UTF-8
```

```
C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>javac BooleanToBoolean.java

C:\Users\likhi\OneDrive\Desktop\KODNEST TRAINING\research notes\Type Conversion\Programs>java BooleanToBoolean
Boolean: true
Boolean: true
```

No Typecasting is required
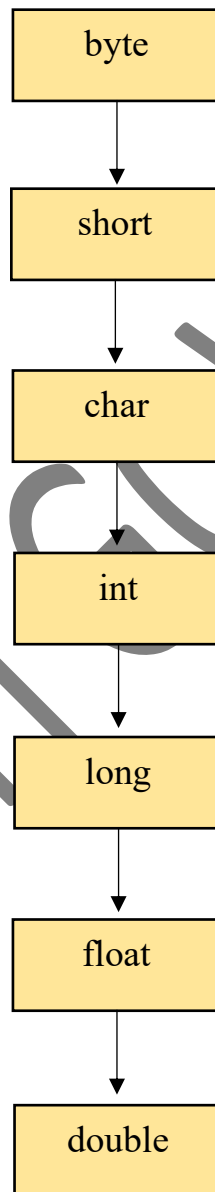
DATA TYPECASTING TABLE

	char	byte	short	int	long	float	double	boolean
char	CNR	✓ Explicit	✓ Explicit	✓ Implicit	✓ Implicit	✓ Implicit	✓ Implicit	✕
byte	✓ Explicit	CNR	✓ Implicit	✓ Implicit	✓ Implicit	✓ Implicit	✓ Implicit	✕
short	✓ Explicit	✓ Explicit	CNR	✓ Implicit	✓ Implicit	✓ Implicit	✓ Implicit	✕
int	✓ Explicit	✓ Explicit	✓ Explicit	CNR	✓ Implicit	✓ Implicit	✓ Implicit	✕
long	✓ Explicit	✓ Explicit	✓ Explicit	✓ Explicit	CNR	✓ Implicit	✓ Implicit	✕
float	✓ Explicit	✓ Explicit	✓ Explicit	✓ Explicit	✓ Explicit	CNR	✓ Implicit	✕
double	✓ Explicit	✓ Explicit	✓ Explicit	✓ Explicit	✓ Explicit	✓ Explicit	CNR	✕
boolean	✕	✕	✕	✕	✕	✕	✕	CNR

CNR – Casting Not Required

IMPLICIT TYPECASTING

It is the process of converting data of lower data type into higher data type.

It is also called as type promotion/widening casting

```
byte
  ↓
short
  ↓
char
  ↓
int
  ↓
long
  ↓
float
  ↓
double
```

EXPLICIT TYPECASTING

It is the process of converting data of higher data type into lower data type.

It is also called as narrow casting.

```
double
  ↓
float
  ↓
long
  ↓
int
  ↓
char
  ↓
short
  ↓
byte
```