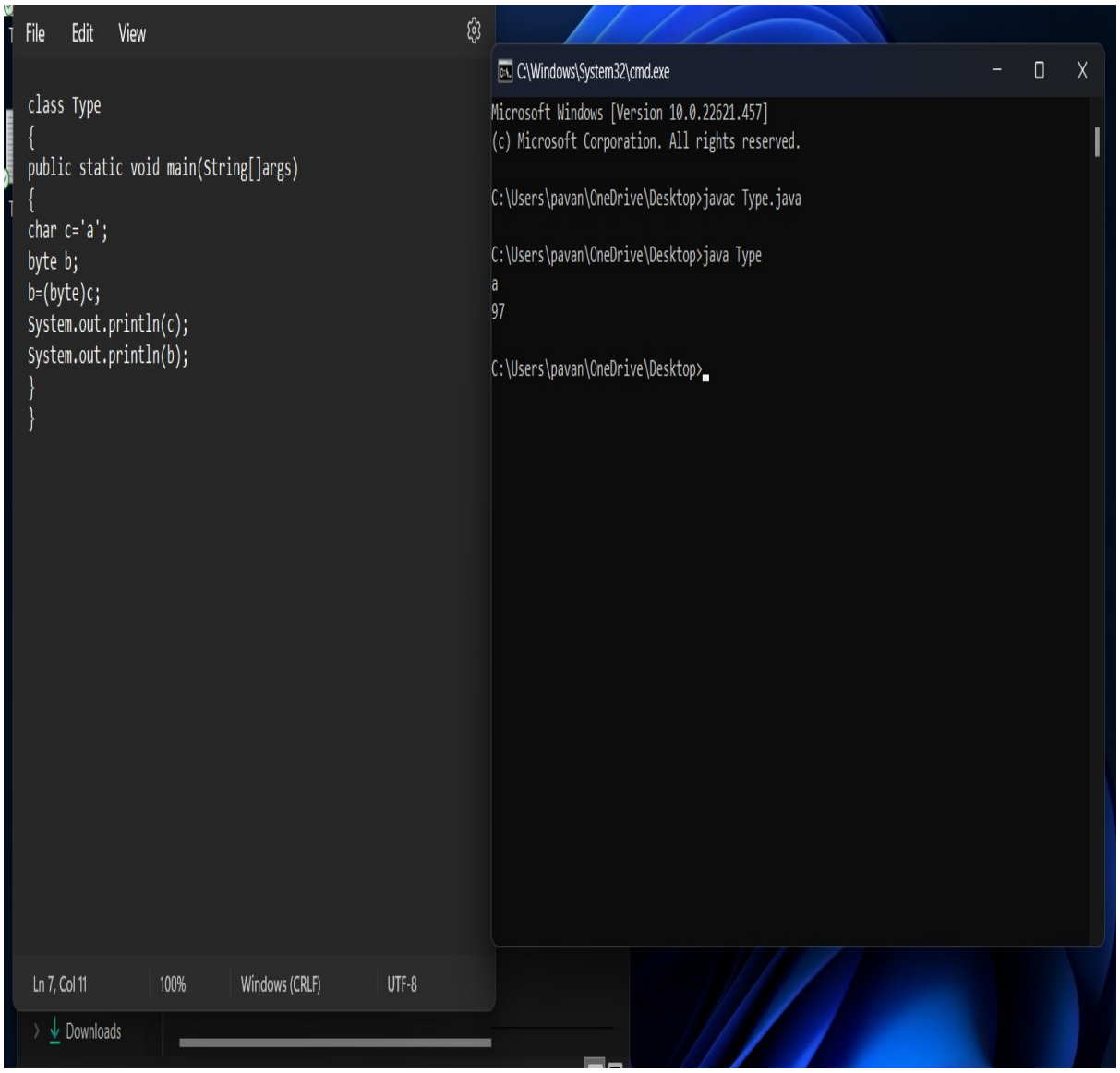
TYPE CASTING

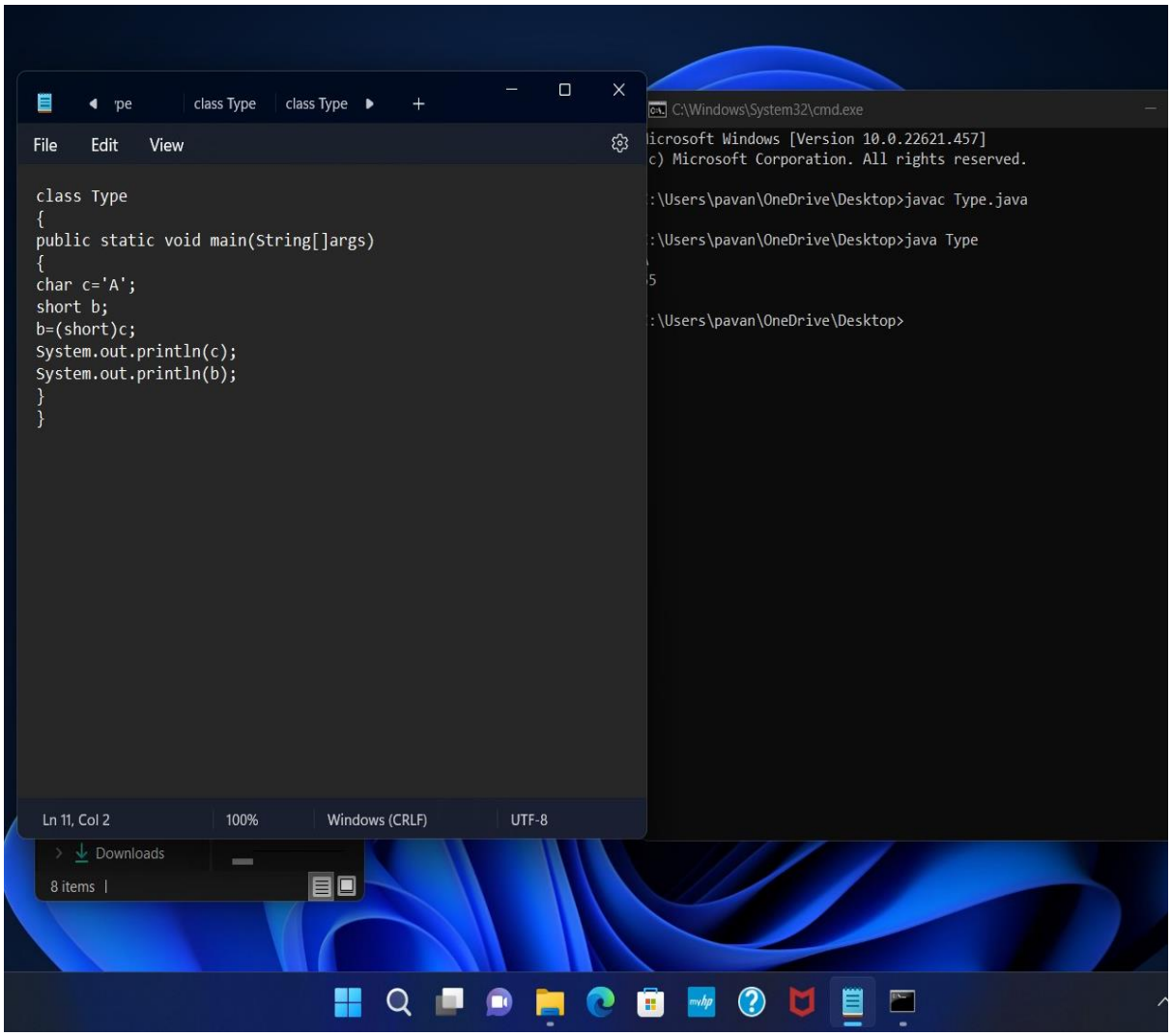
Program:



Conclusion: It is possible

Explicit casting

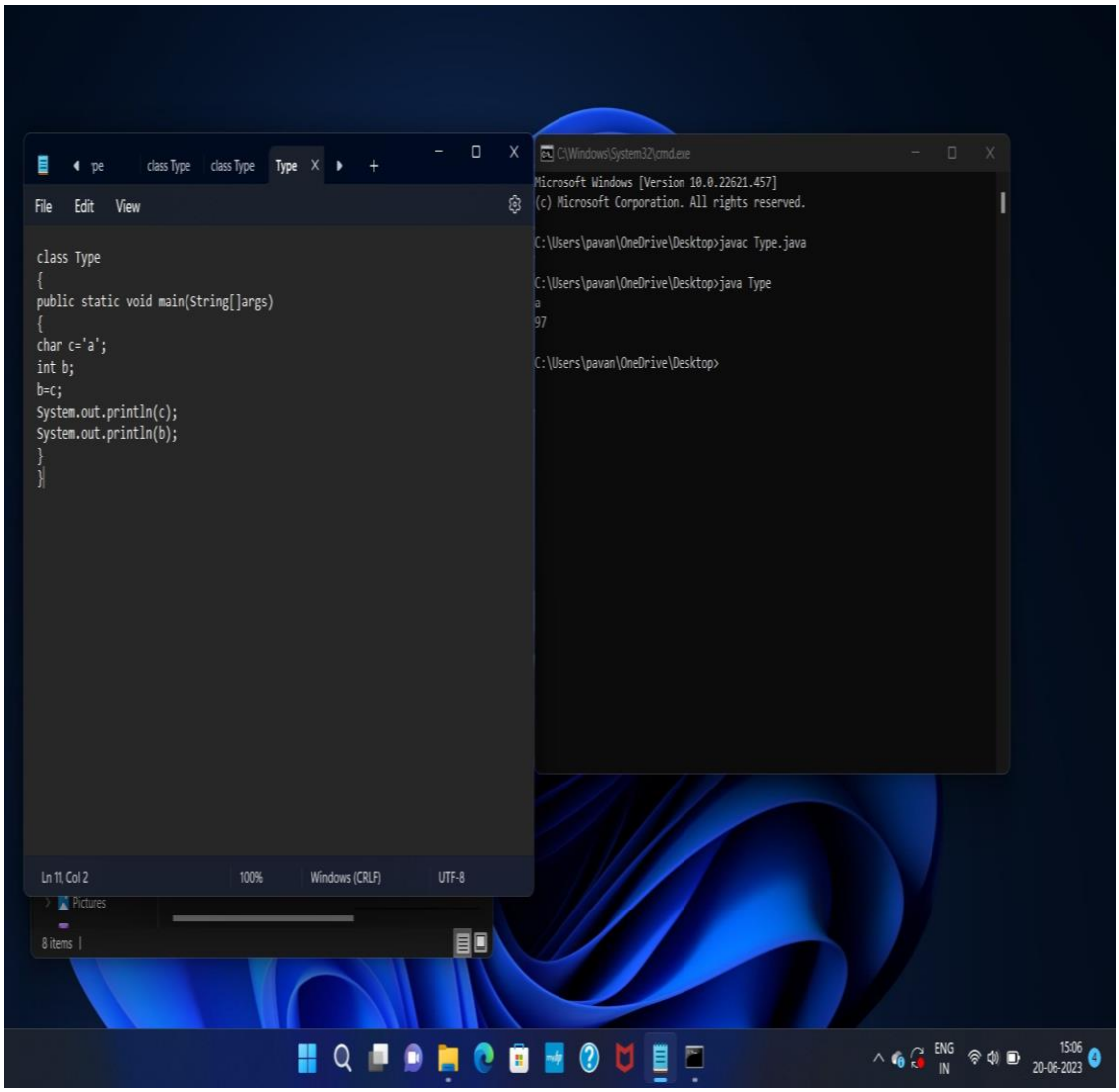
Program:



Conclusion: It is possible

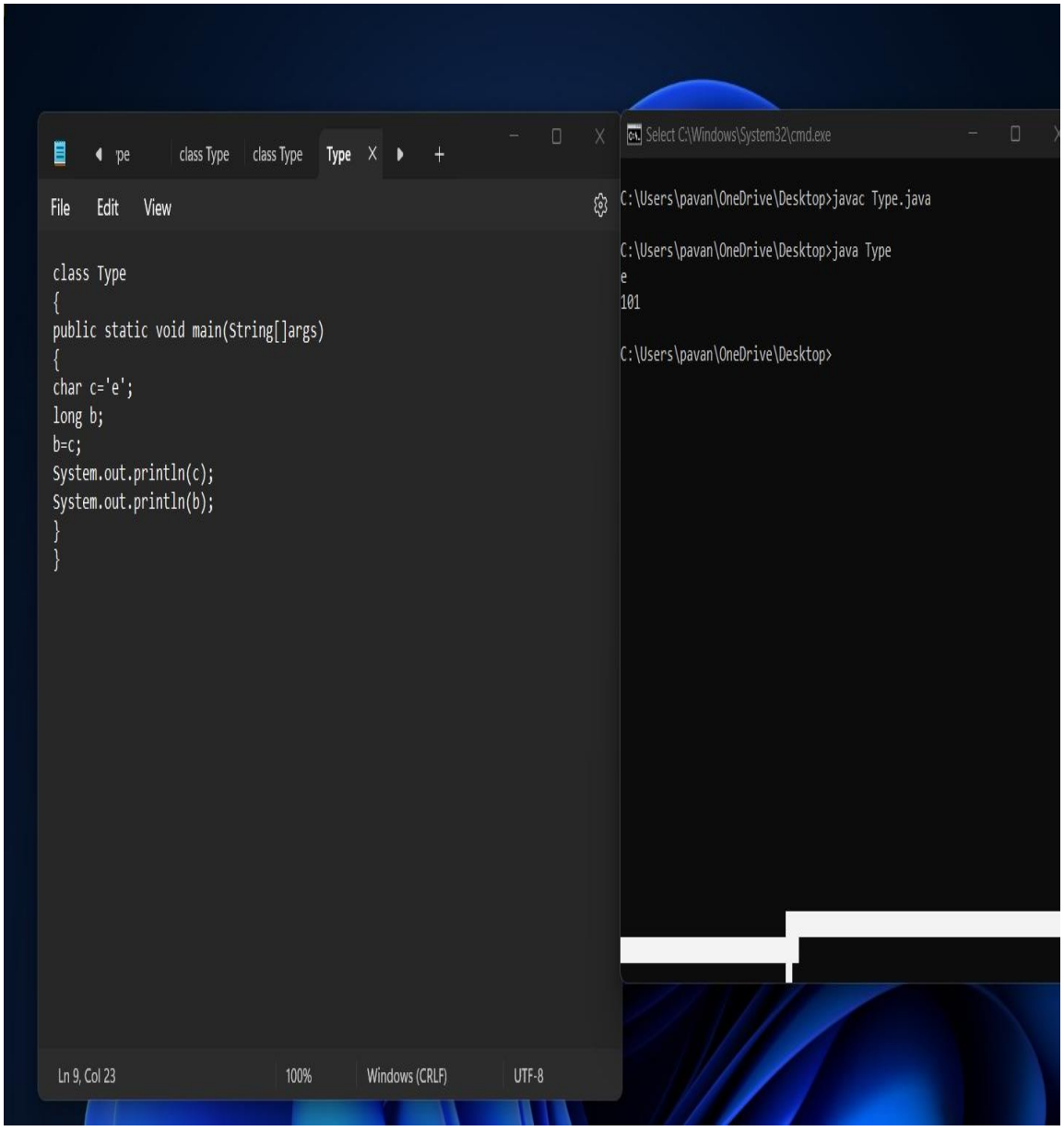
Explicit conversion

Program:



Conclusion: It is possible implicit conversion

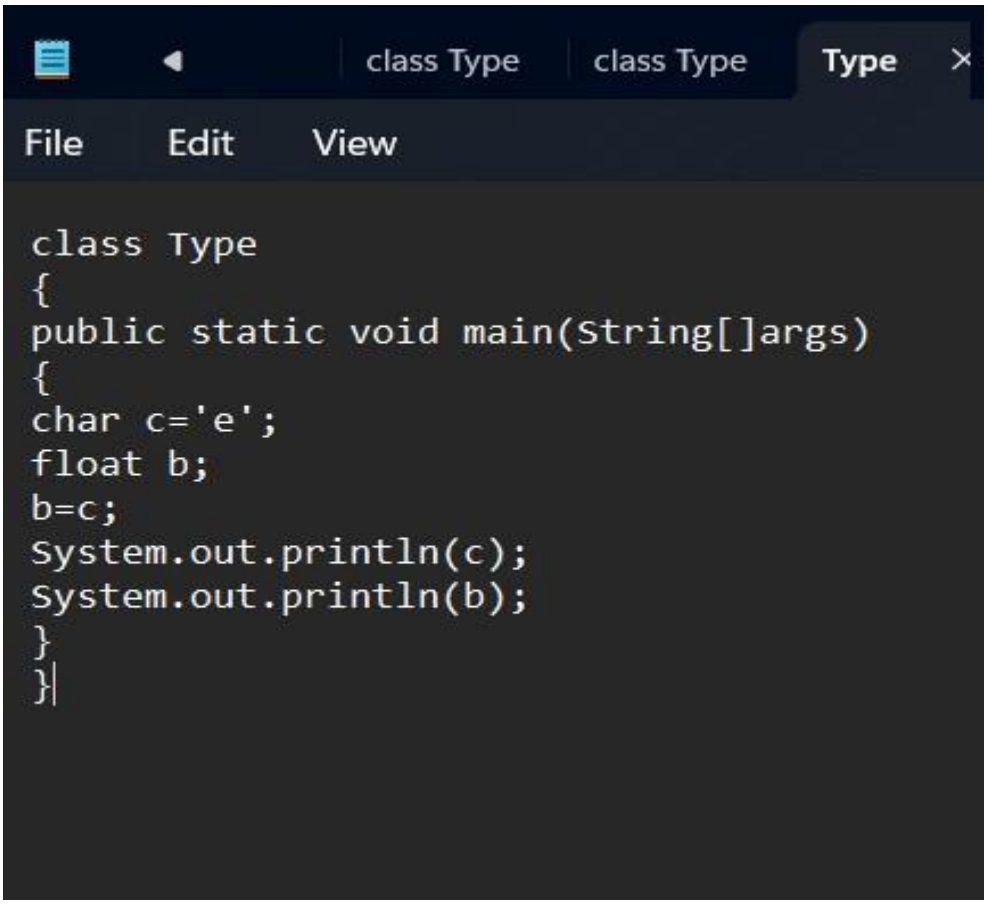
Program:

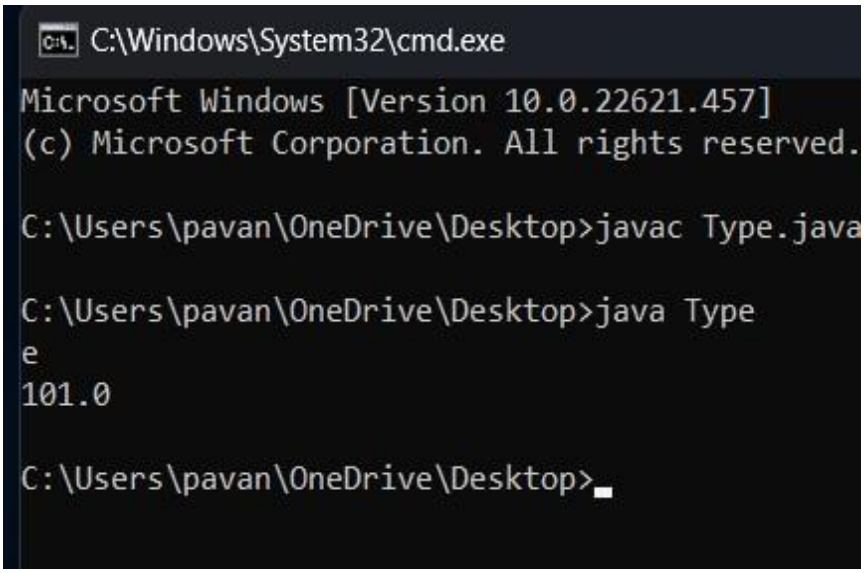


Conclusion: It is possible

Implicit conversion

Program:





Conclusion: It is possible

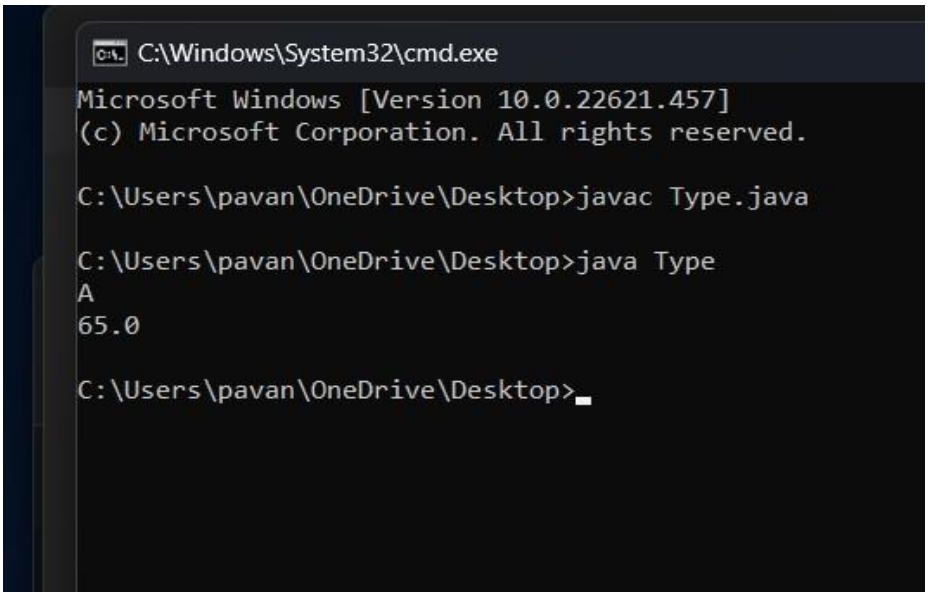
Implicit conversion

Program:

Type

File Edit View

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



Conclusion : It is possible

Implicit conversion

Program:

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

```
C:\Users\pavan\OneDrive\Desktop>javac Demo2.java
Demo2.java:7: error: incompatible types: char cannot be converted to boolean
b=c;
  ^
```

Conclusion : It is not possible

Program:

Type

File Edit View

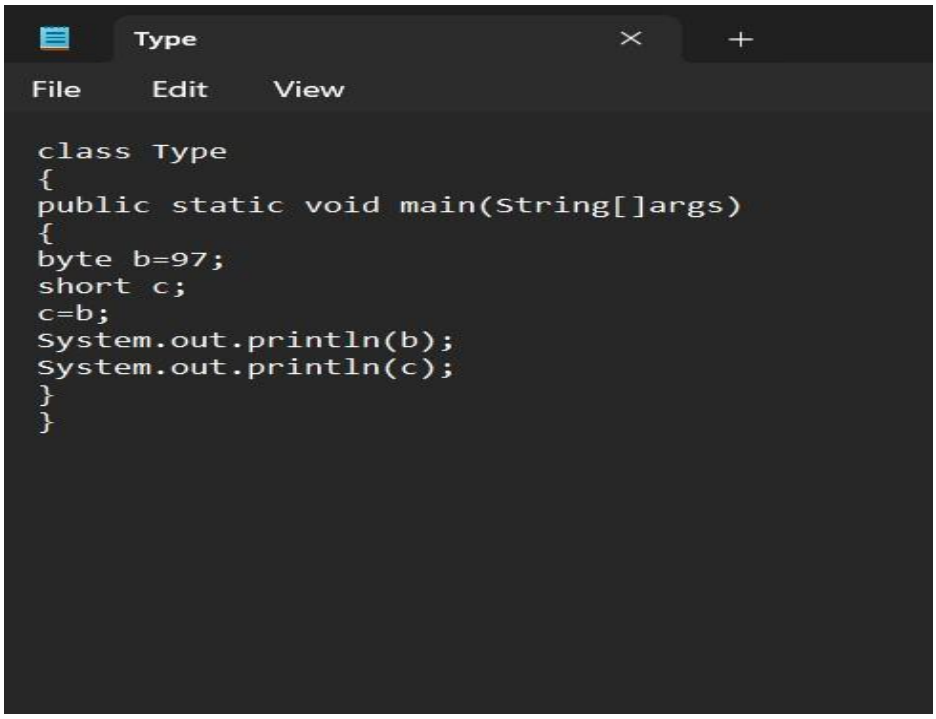
```
class Type
{
public static void main(String[]args)
{
byte b=97;
char c;
c=(char)b;
System.out.println(b);
System.out.println(c);
}
}
```

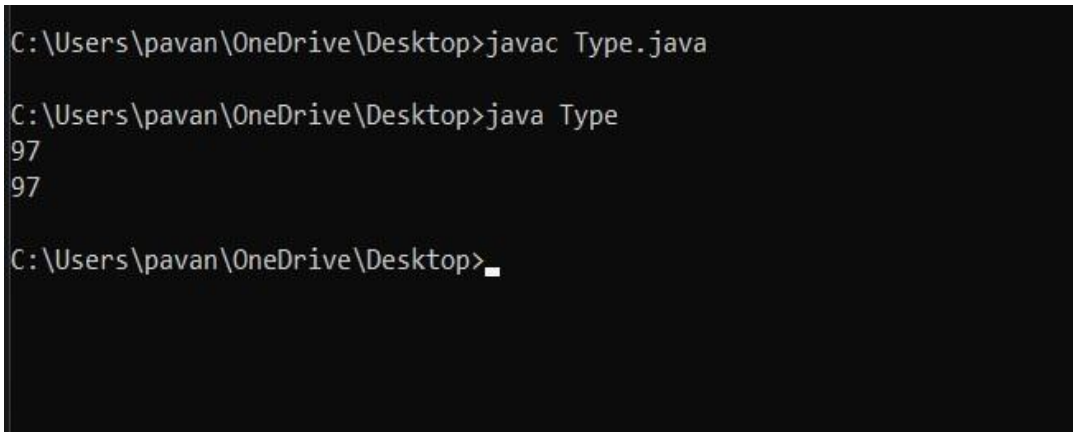
```
C:\Users\pavan\OneDrive\Desktop>javac Type.java

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

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

conclusion: It is possible

explicit conversion

Program:





Conclusion: It is possible

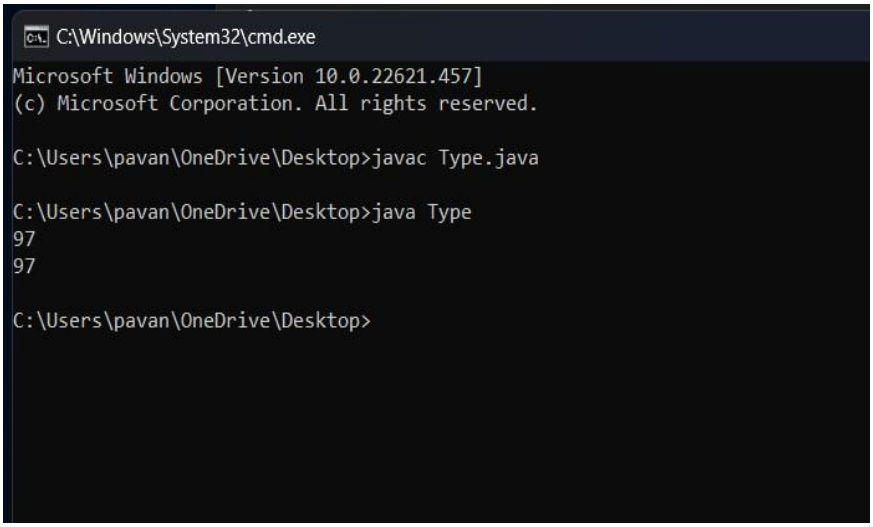
Implicit conversion

Program:

Type

File Edit View

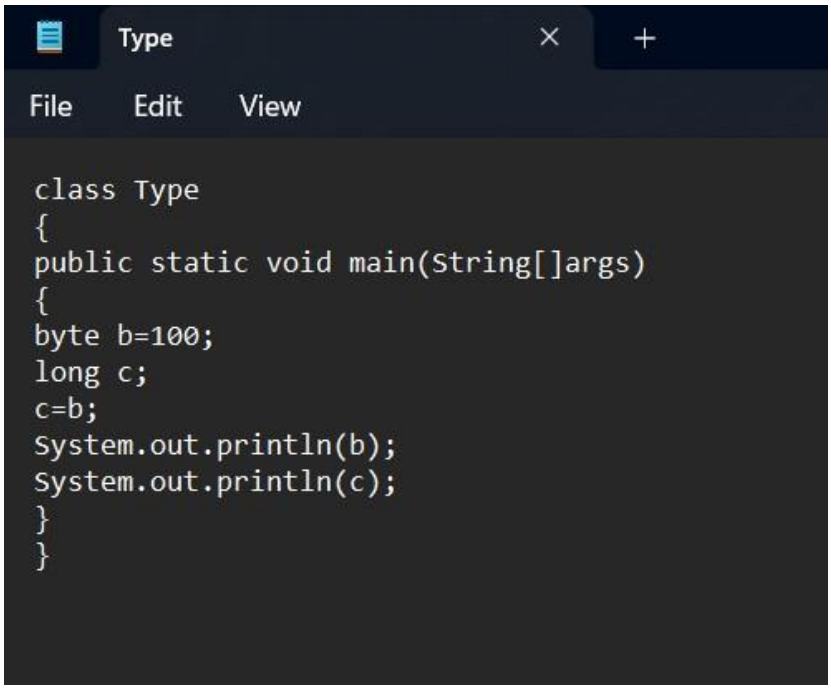
```
class Type
{
public static void main(String[]args)
{
byte b=97;
int c;
c=b;
System.out.println(b);
System.out.println(c);
}
}
```

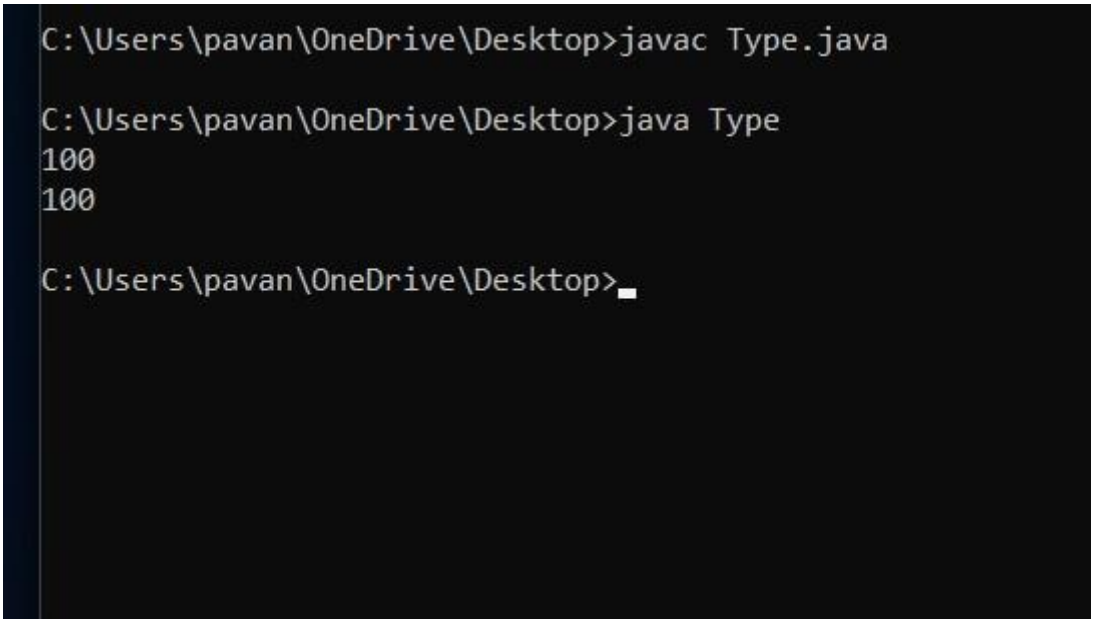


Conclusion: It is possible

Implicit conversion

Program:

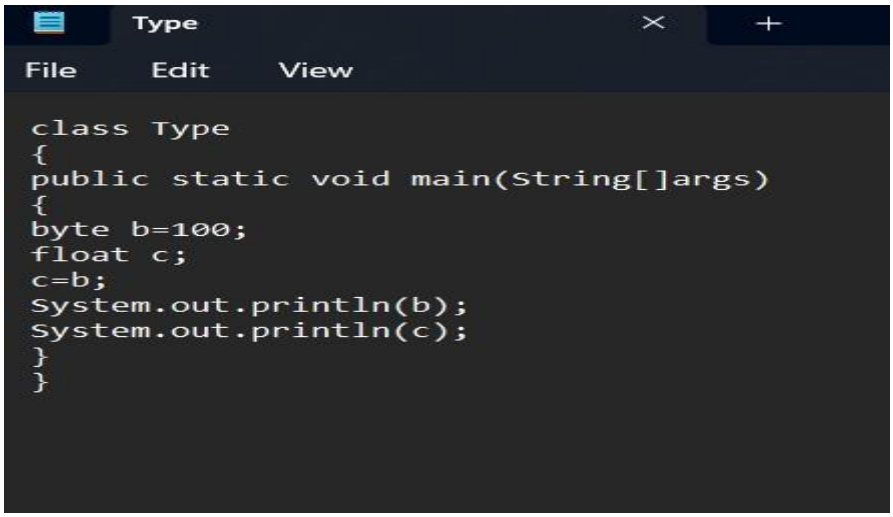


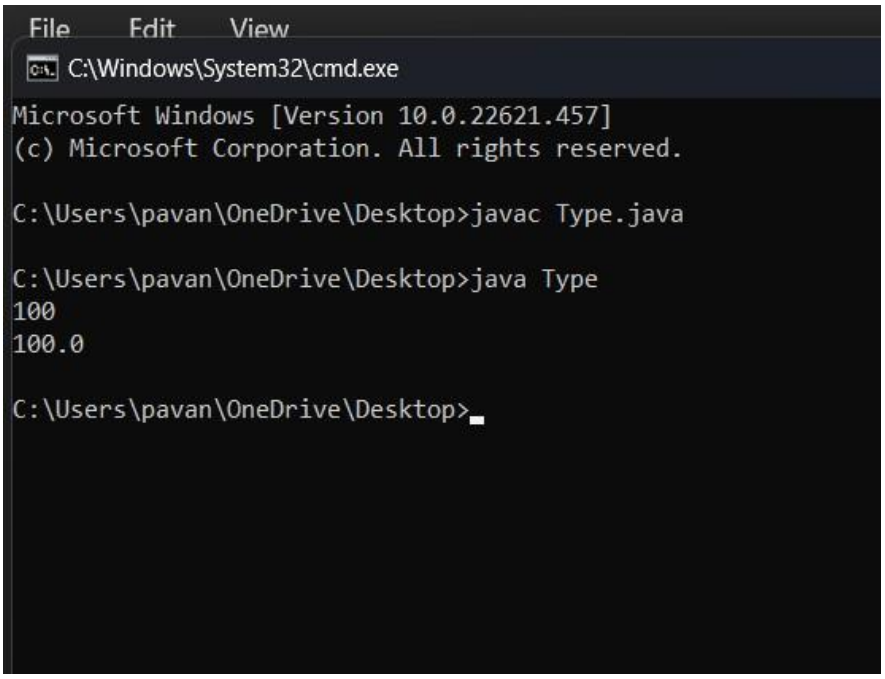


Conclusion: It is possible

Implicit conversion

Program:





Conclusion: It is possible

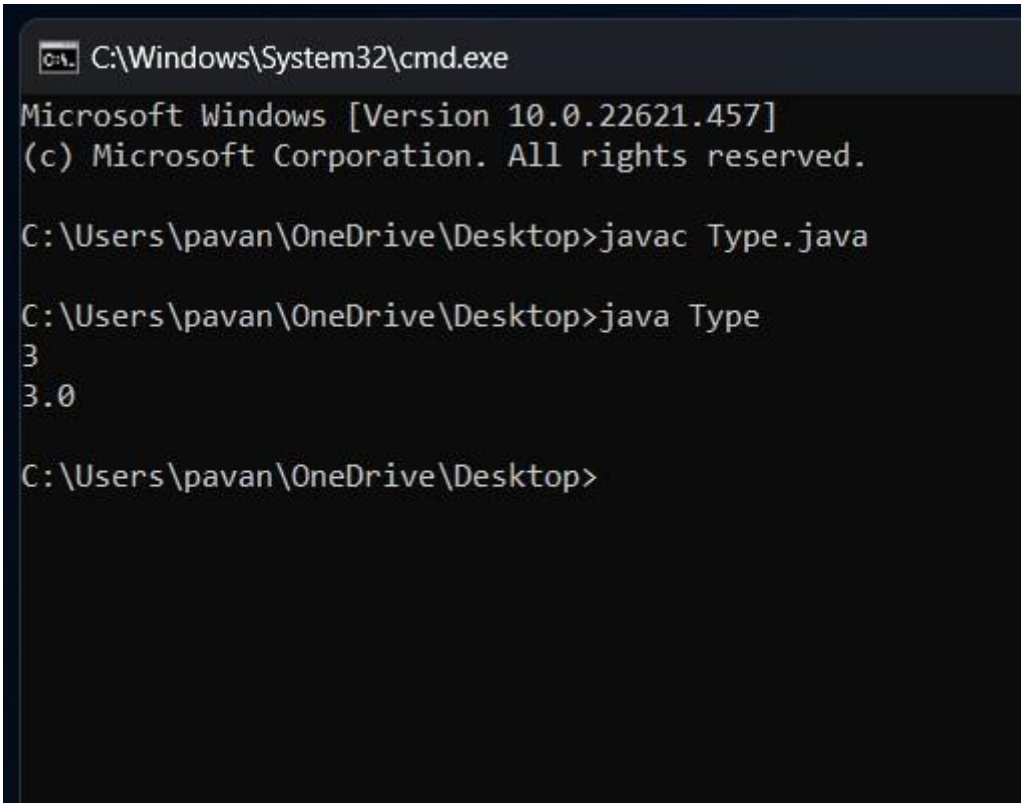
Implicit conversion

Program:

Type

File Edit View

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



Conclusion: It is possible

Implicit conversion

Program:

Type

File Edit View

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

C:\Windows\System32\cmd.exe

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

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

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

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

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

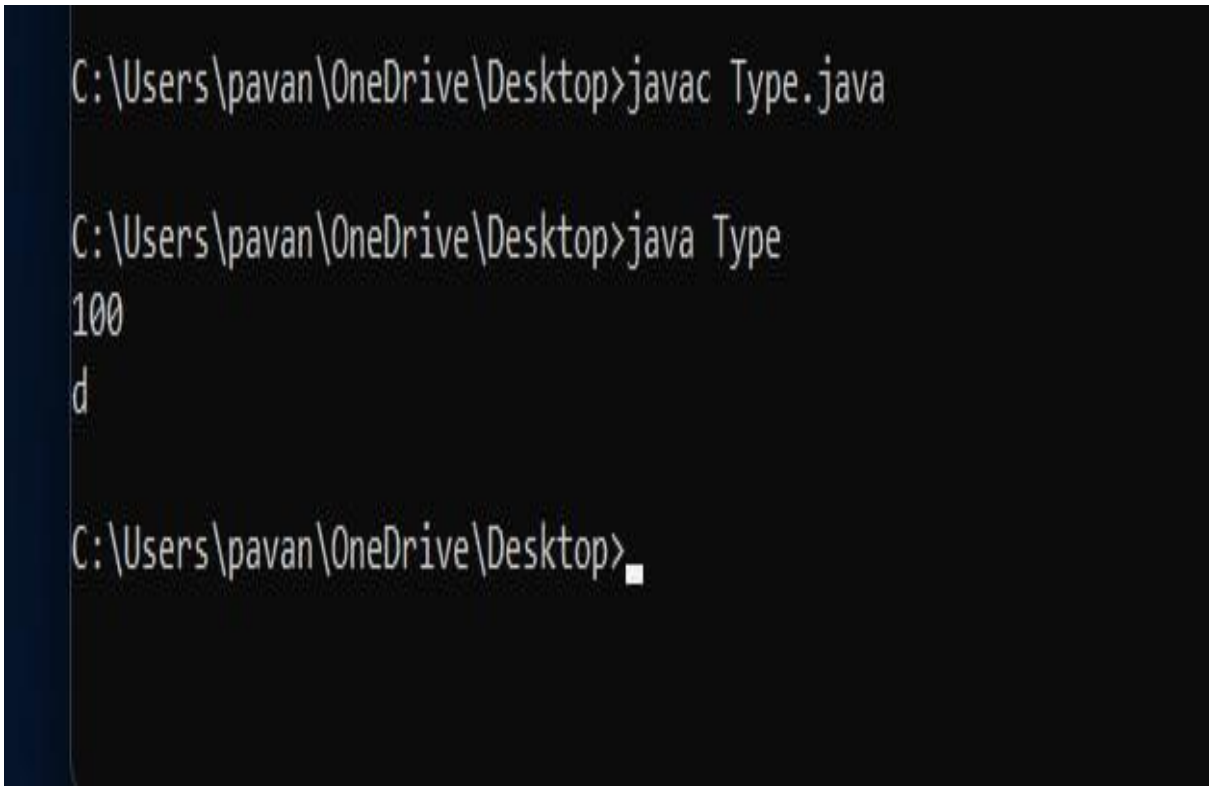
Conclusion: It is not possible

Program:

Type

File Edit View

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



Conclusion: It is possible

Explicit conversion

program

Type

File Edit View

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

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

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

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

Conclusion: It is possible

Explicit conversion

Program:

Type

File Edit View

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

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

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

Conclusion: It is possible

implicit conversion

program:

Type

File Edit View

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

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

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

Conclusion: It is possible

implicit conversion

program:

Type

File Edit View

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

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

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

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

Conclusion: It is possible

implicit conversion

program:

Type

File Edit View

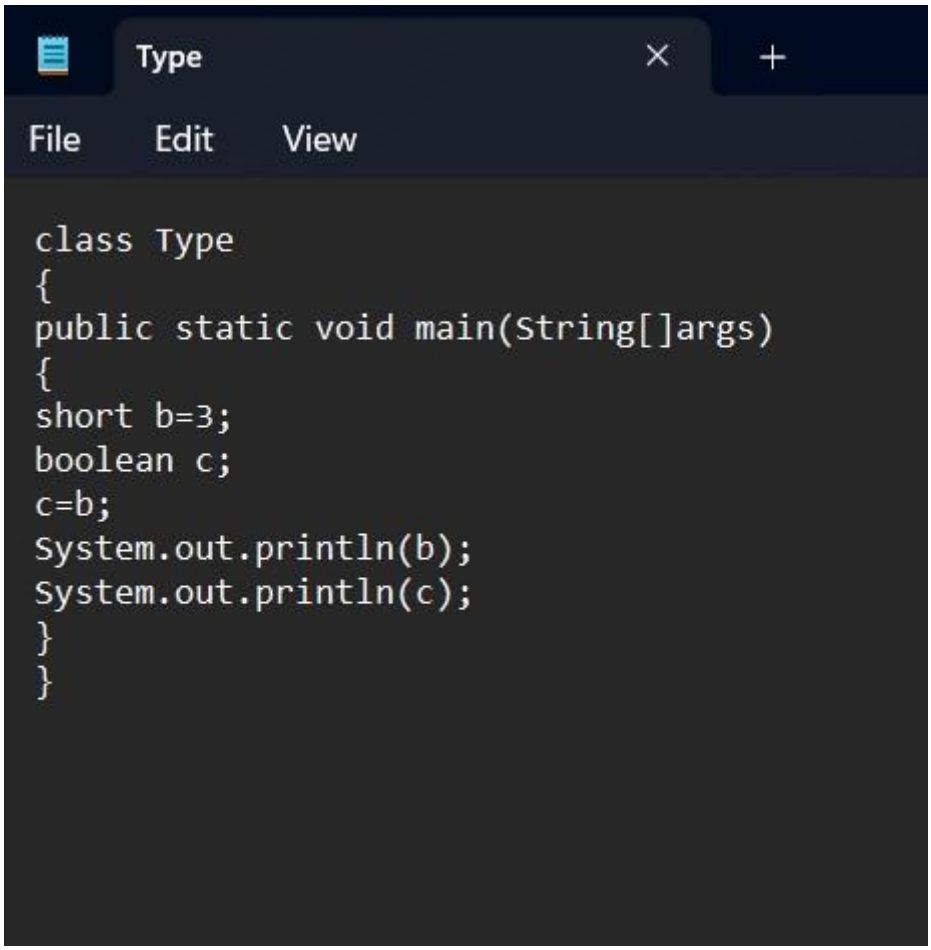
```
class Type
{
public static void main(String[]args)
{
short b=3000;
double c;
c=b;
System.out.println(b);
System.out.println(c);
}
}
```

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

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

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

Conclusion: It is possible

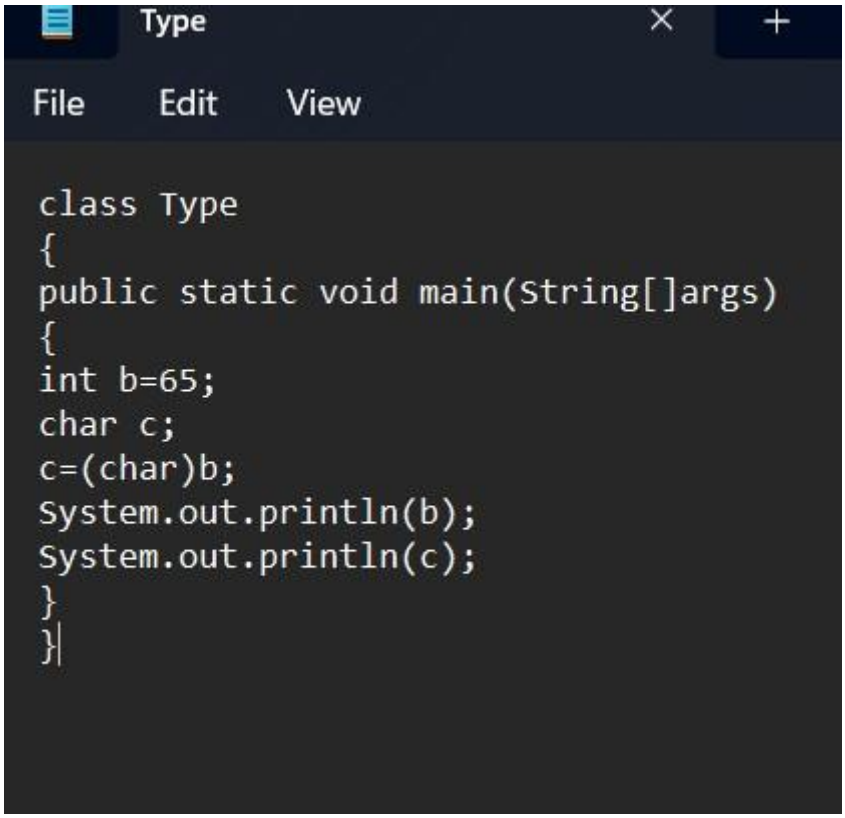
implicit conversion

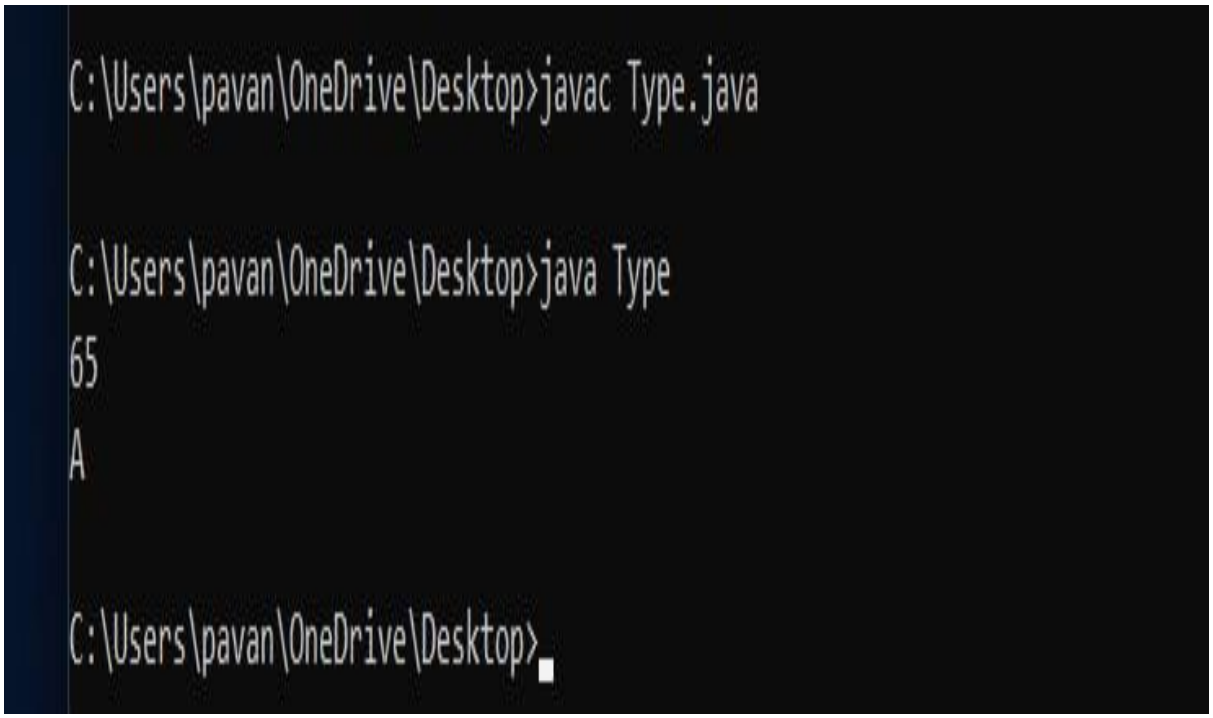
program:



Conclusion: It is not possible

Program:

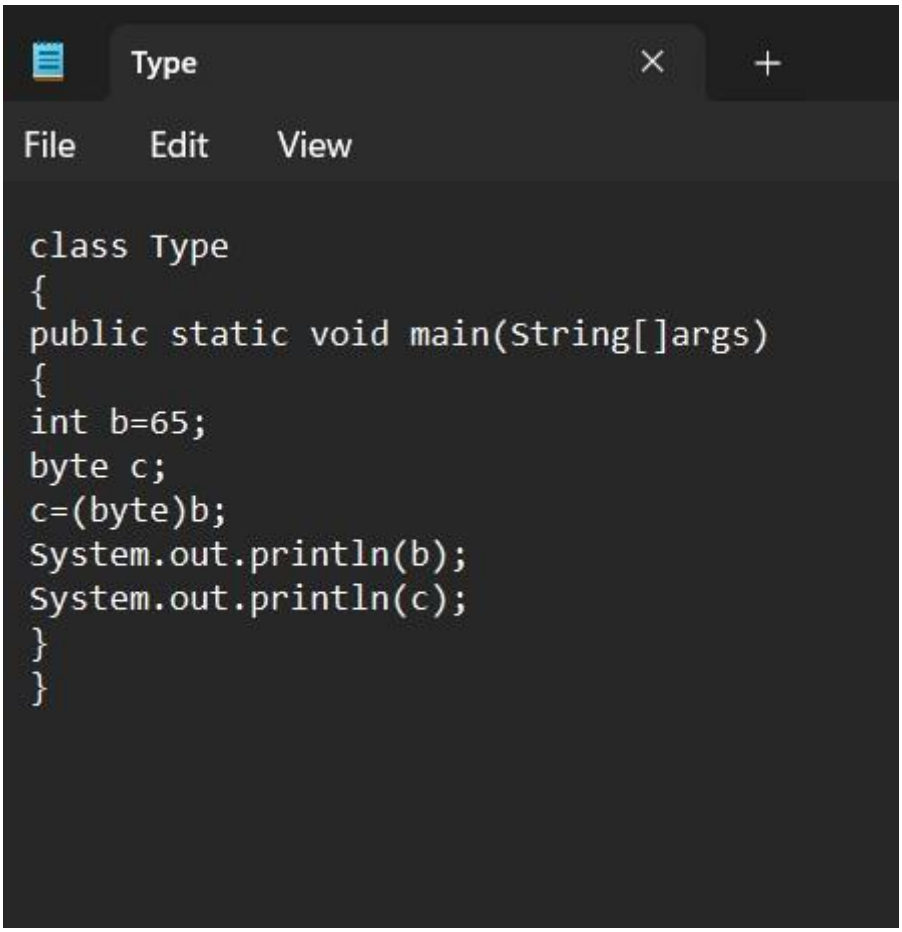


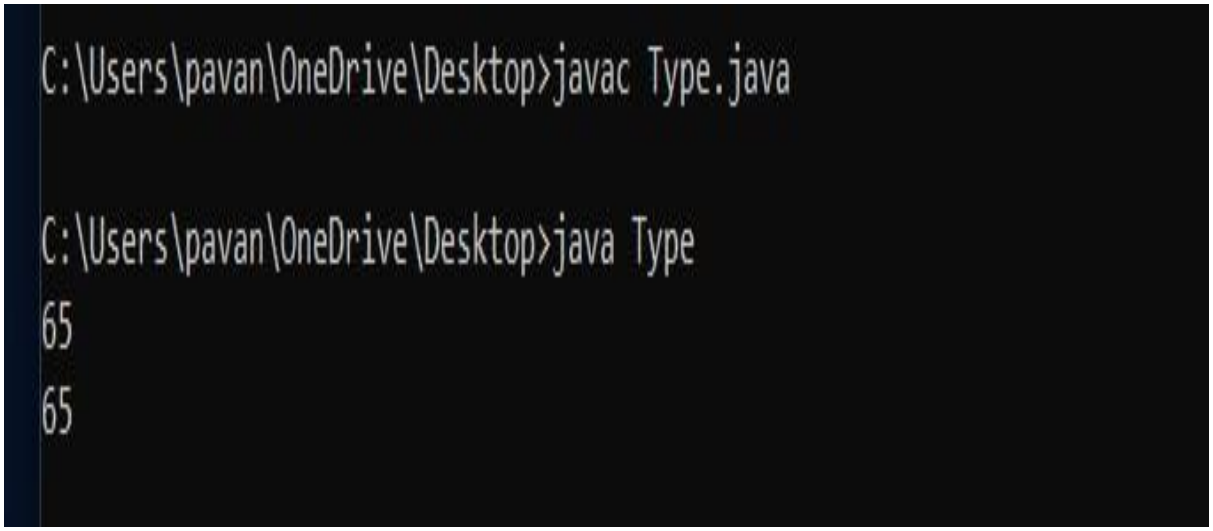


Conclusion: It is possible

explicit conversion

program:

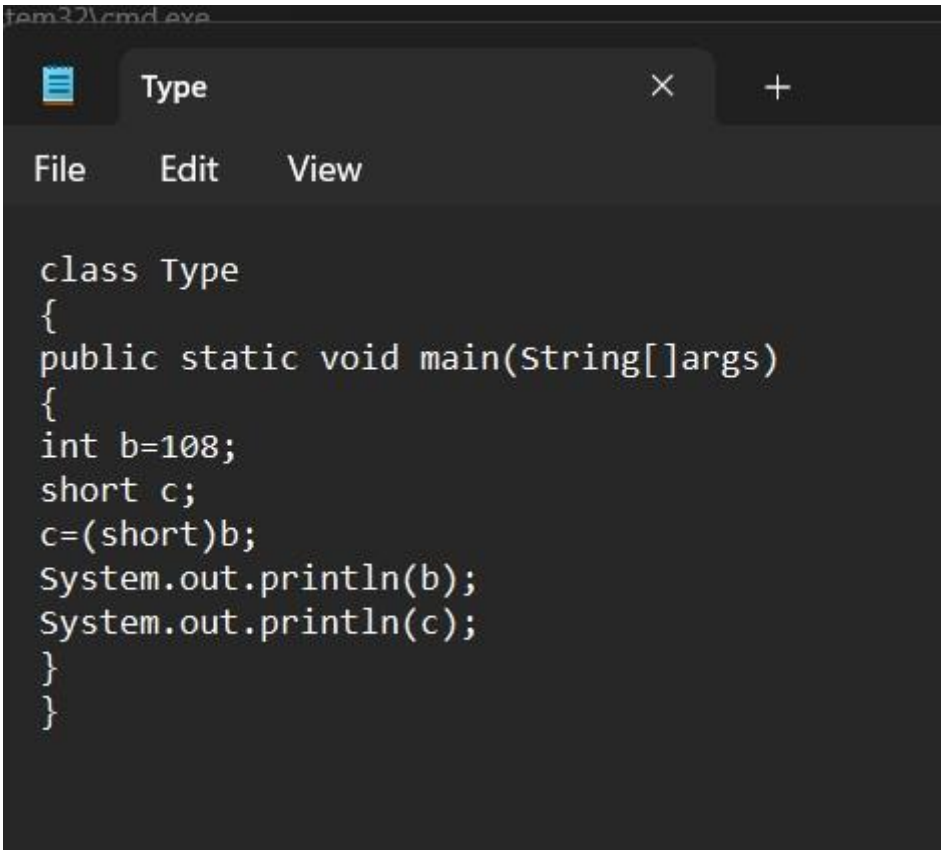


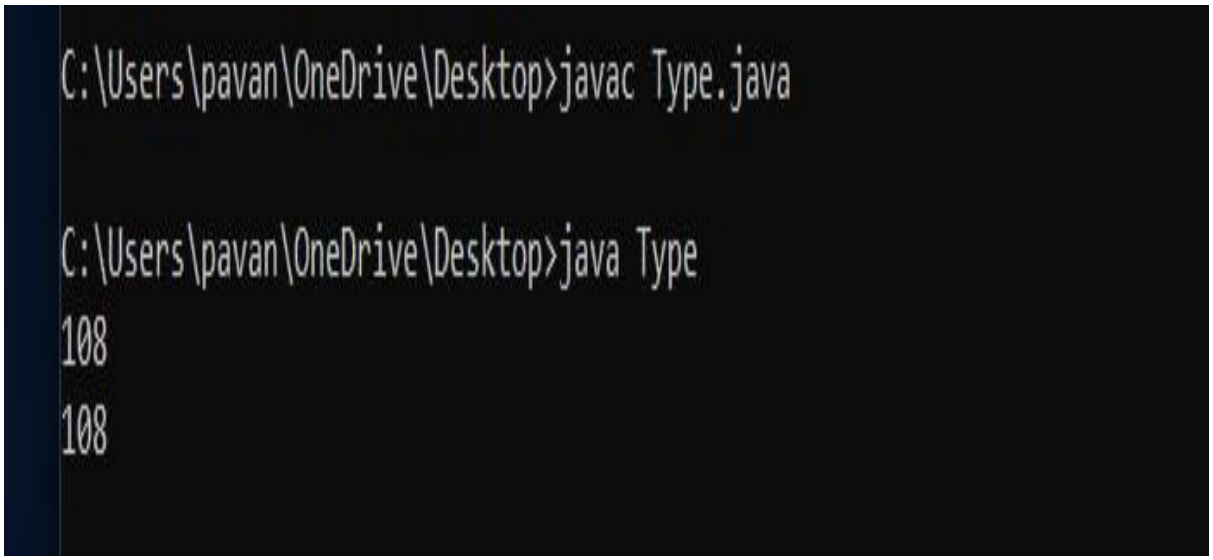


Conclusion: It is possible

explicit conversion

program:





Conclusion: It is possible

explicit conversion

program

Type

File Edit View

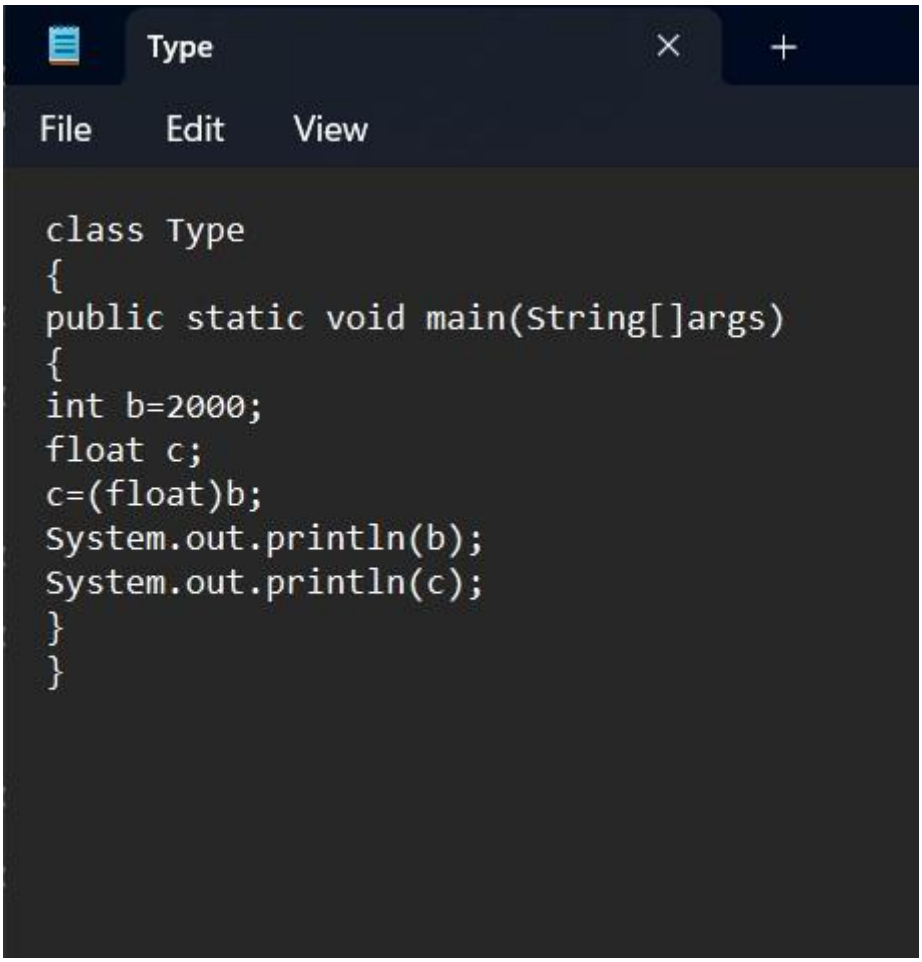
```
class Type
{
public static void main(String[]args)
{
int b=1000;
long c;
c=(long)b;
System.out.println(b);
System.out.println(c);
}
}
```

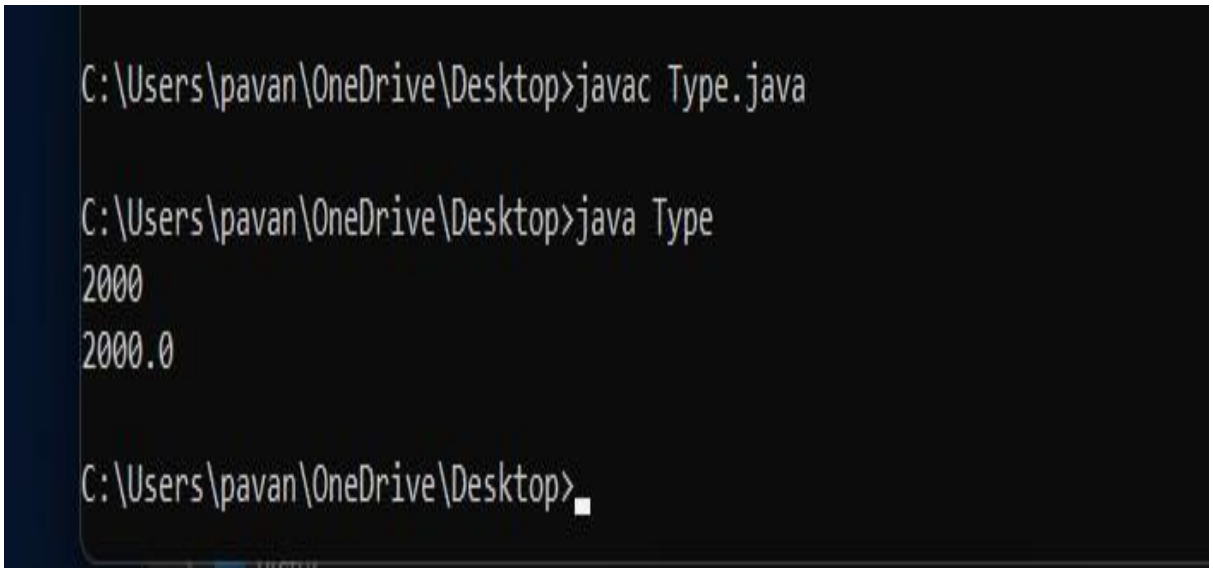
```
C:\Users\pavan\OneDrive\Desktop>javac Type.java

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

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

Conclusion: It is possible

explicit conversion

program:

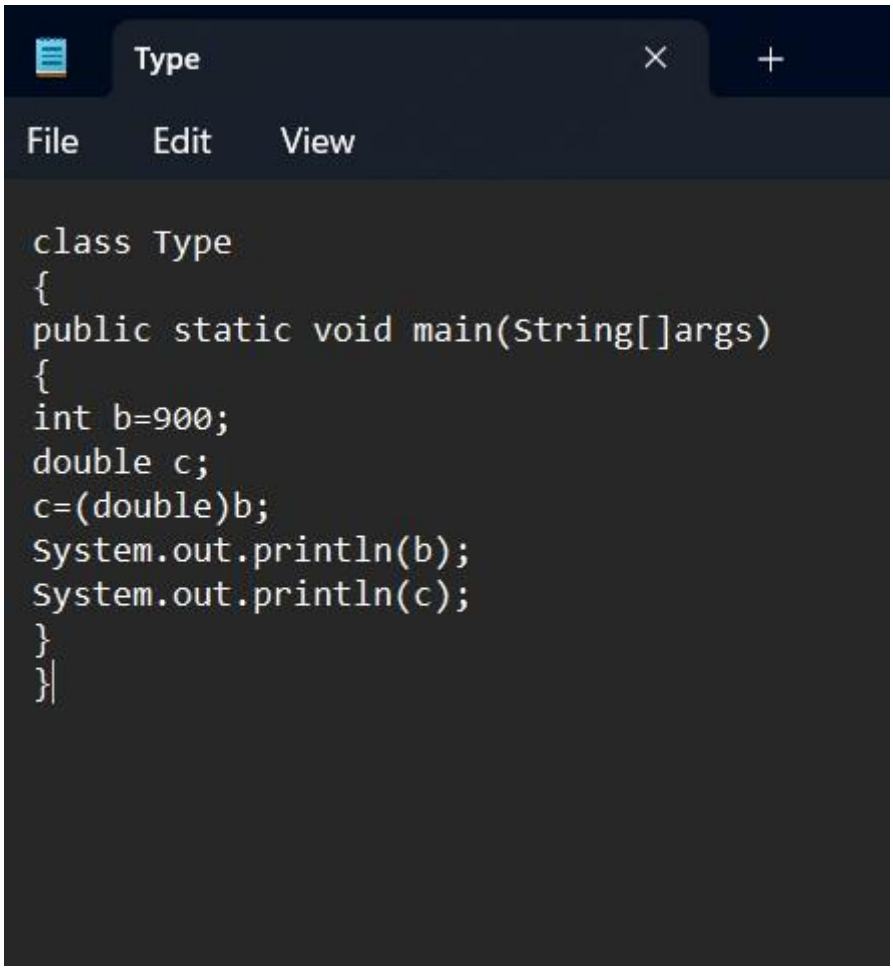


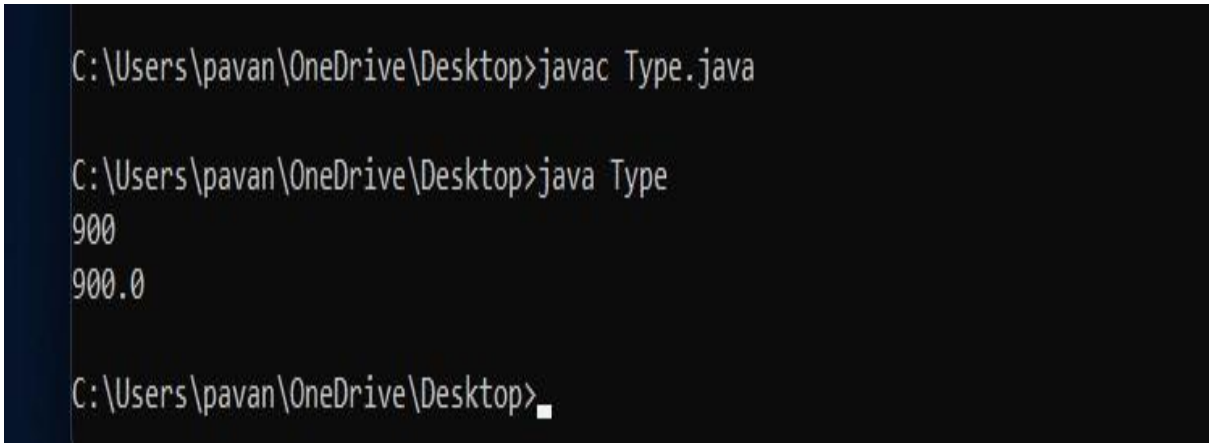


Conclusion: It is possible

explicit conversion

program:

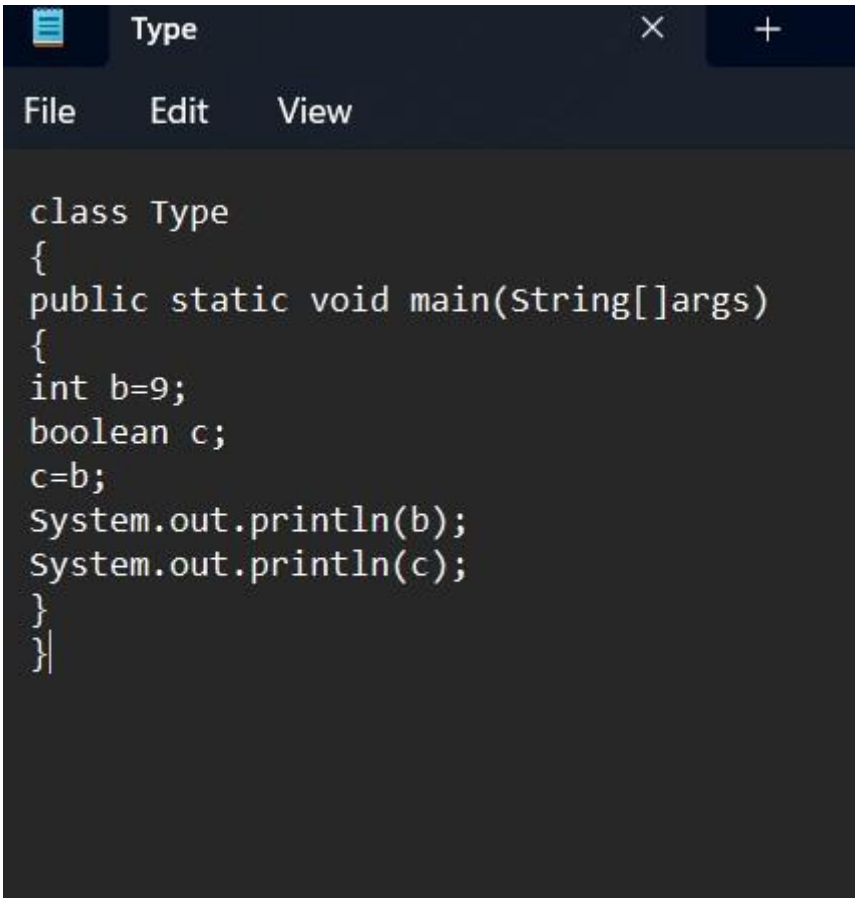




Conclusion: It is possible

explicit conversion

program:




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

Conclusion: It is not possible

Program:

Type

File Edit View

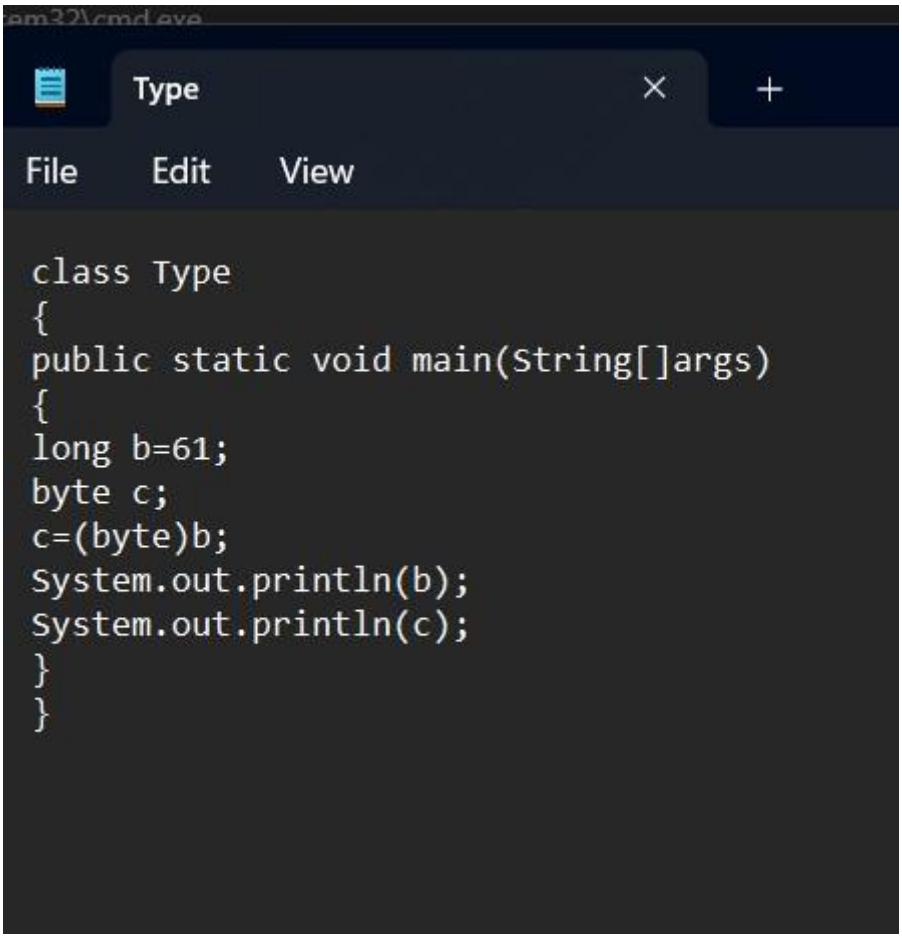
```
class Type
{
public static void main(String[]args)
{
long b=67;
char c;
c=(char)b;
System.out.println(b);
System.out.println(c);
}
}
```

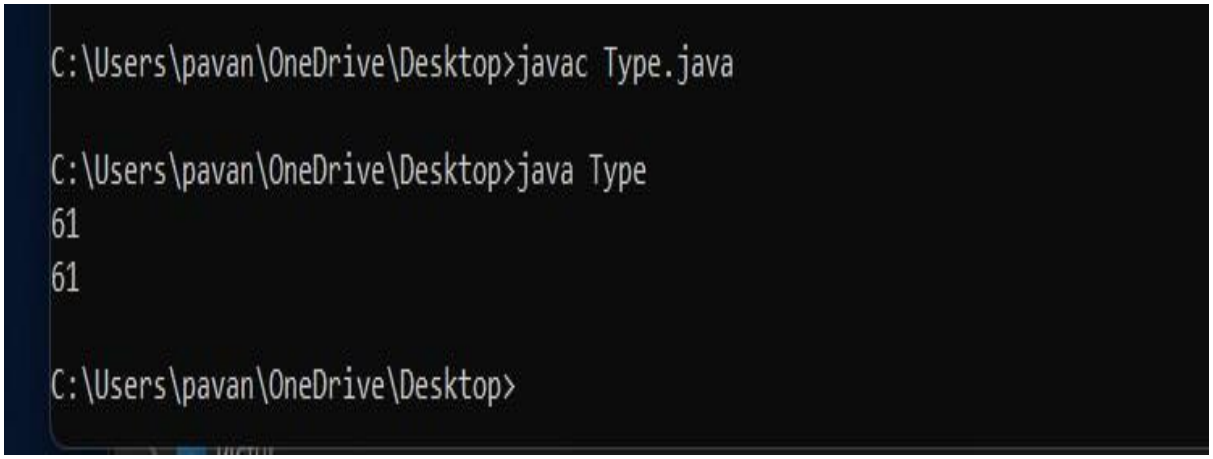
```
C:\Users\pavan\OneDrive\Desktop>javac Type.java

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

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

Conclusion: It is possible

explicit conversion

program:

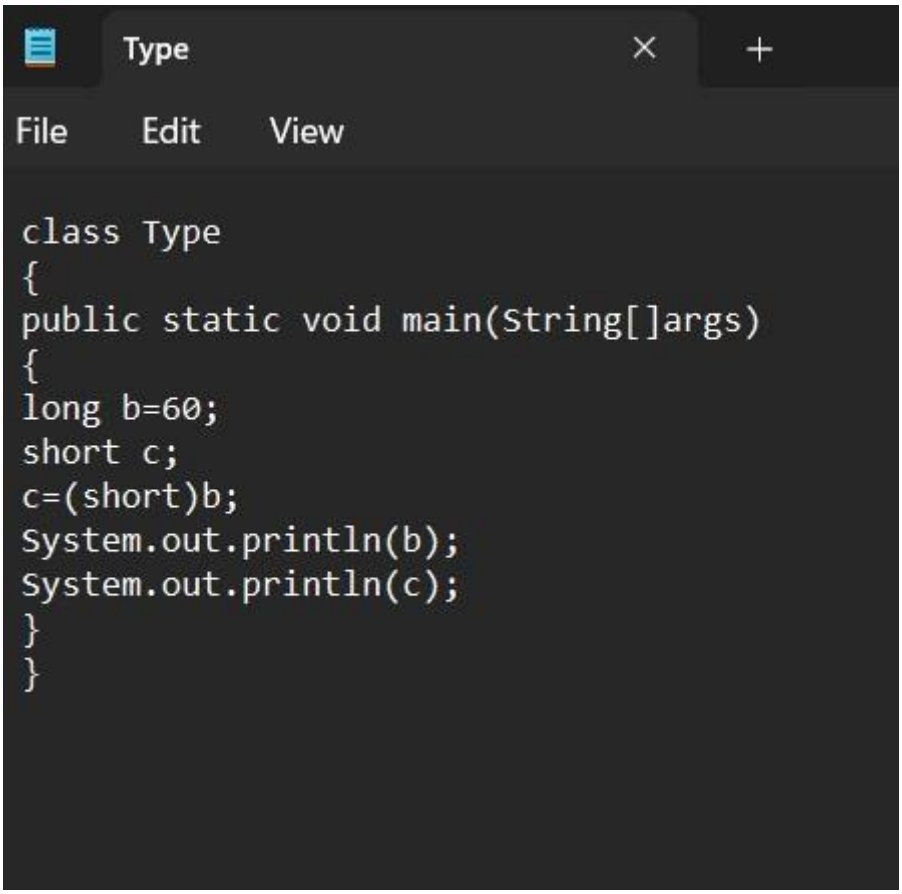




Conclusion: It is possible

explicit conversion

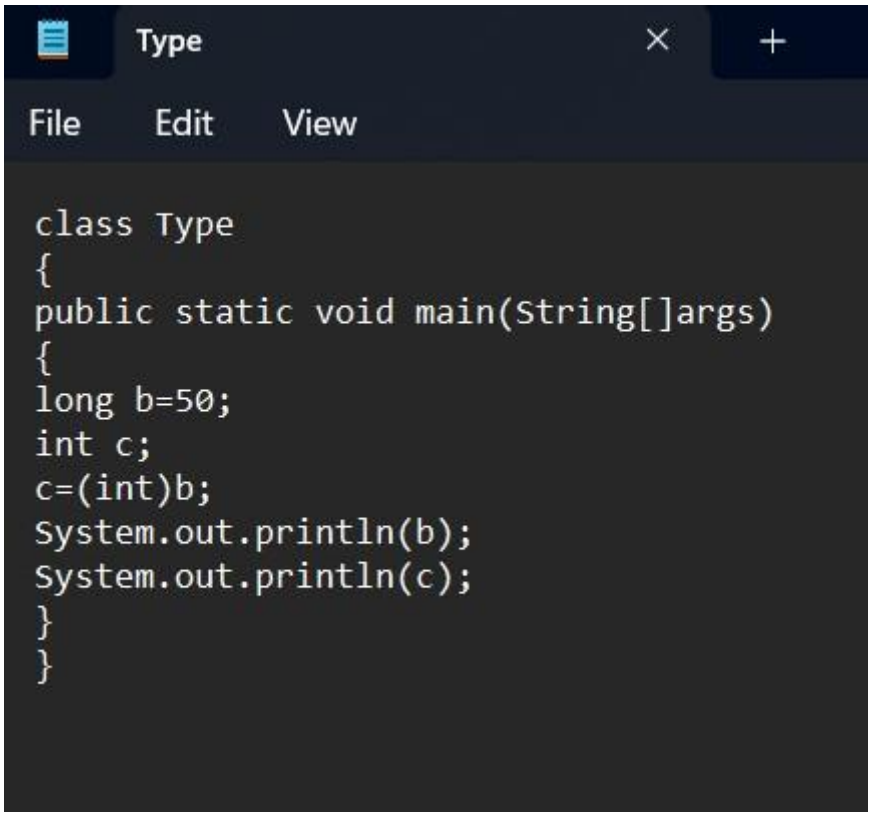
program:

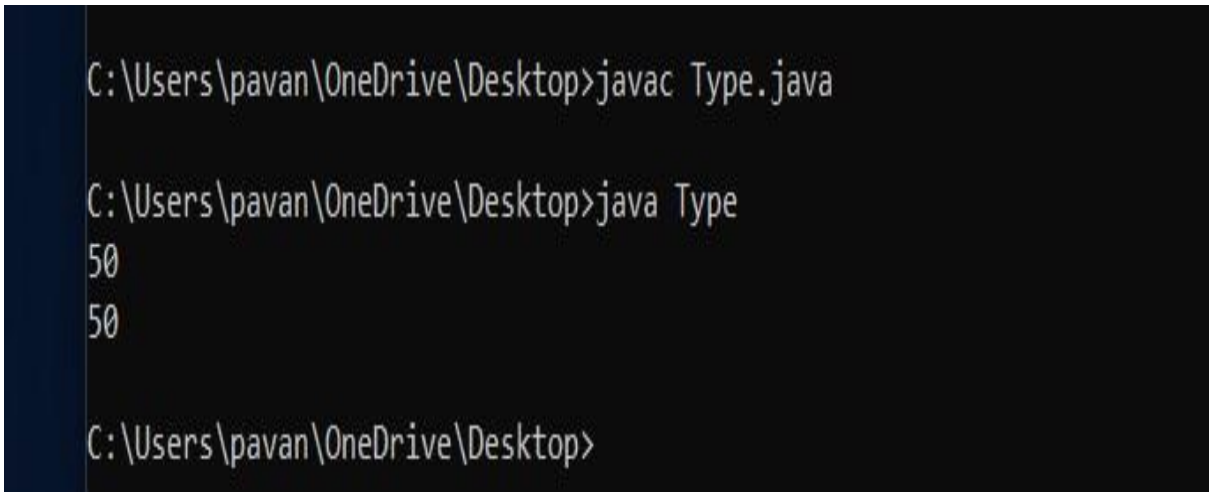


Conclusion: It is possible

explicit conversion

program:

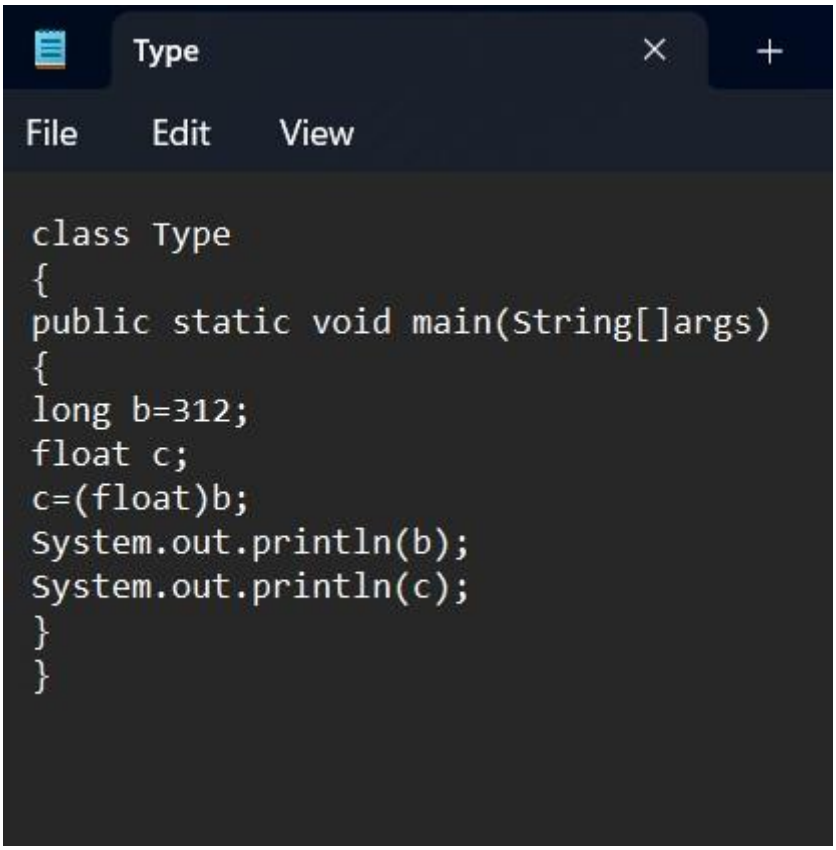


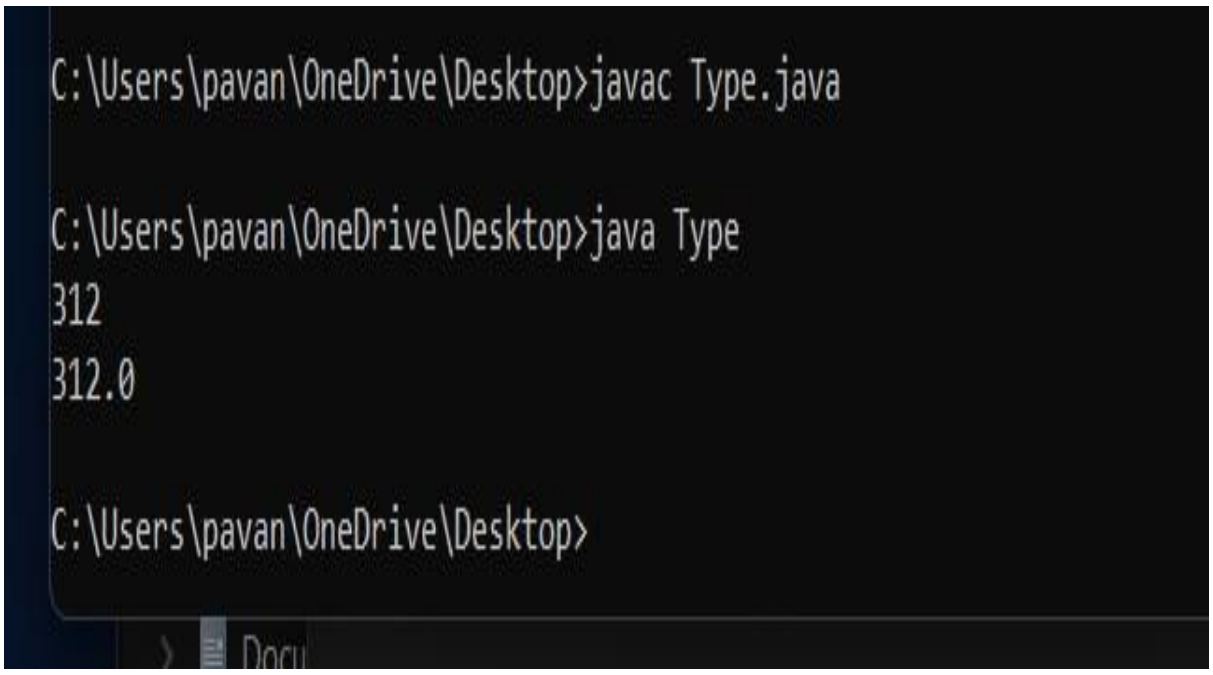


Conclusion: It is possible

explicit conversion

program:

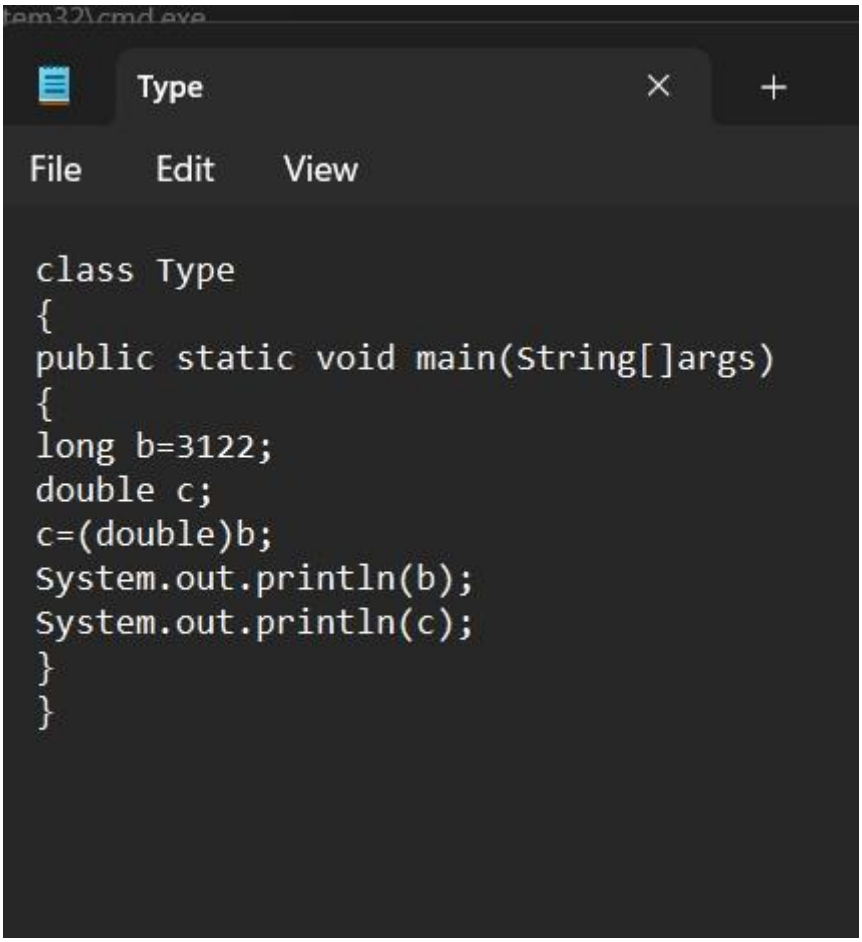


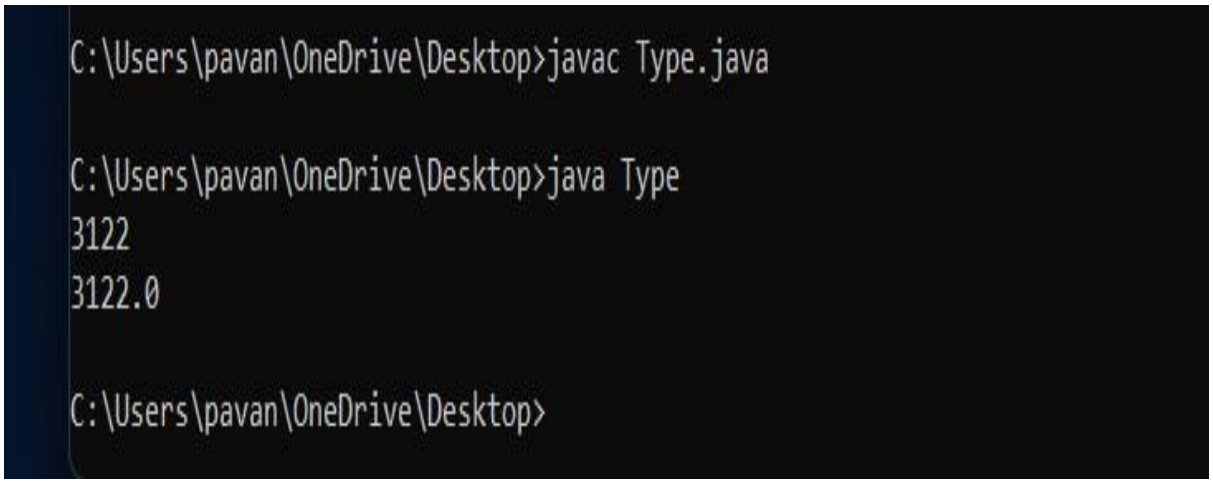


Conclusion: It is possible

explicit conversion

program:

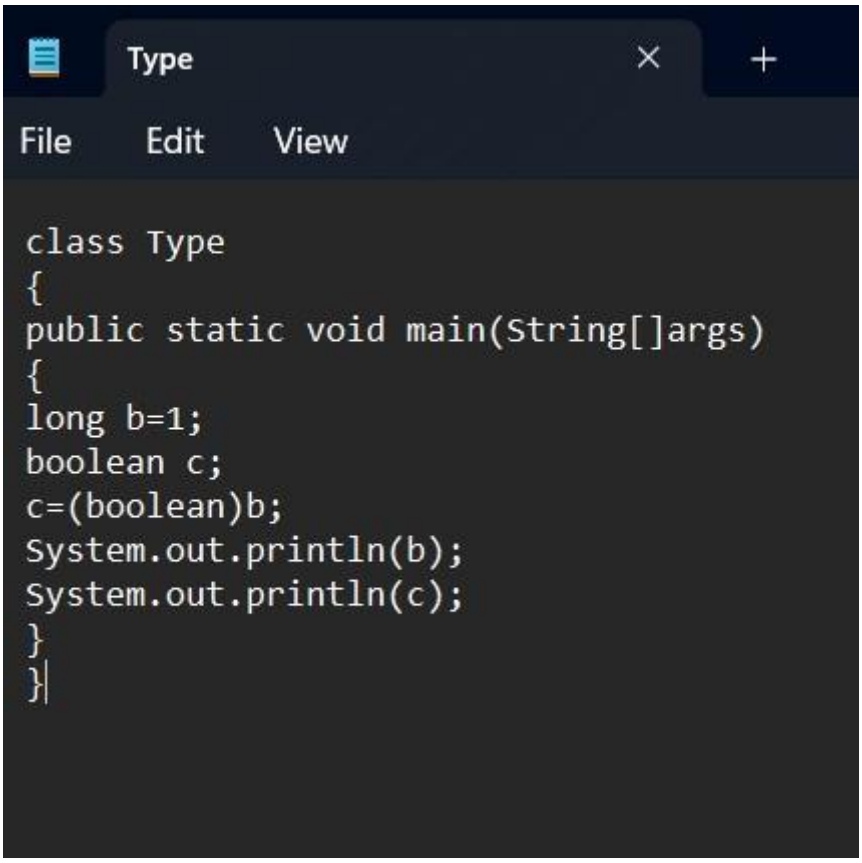


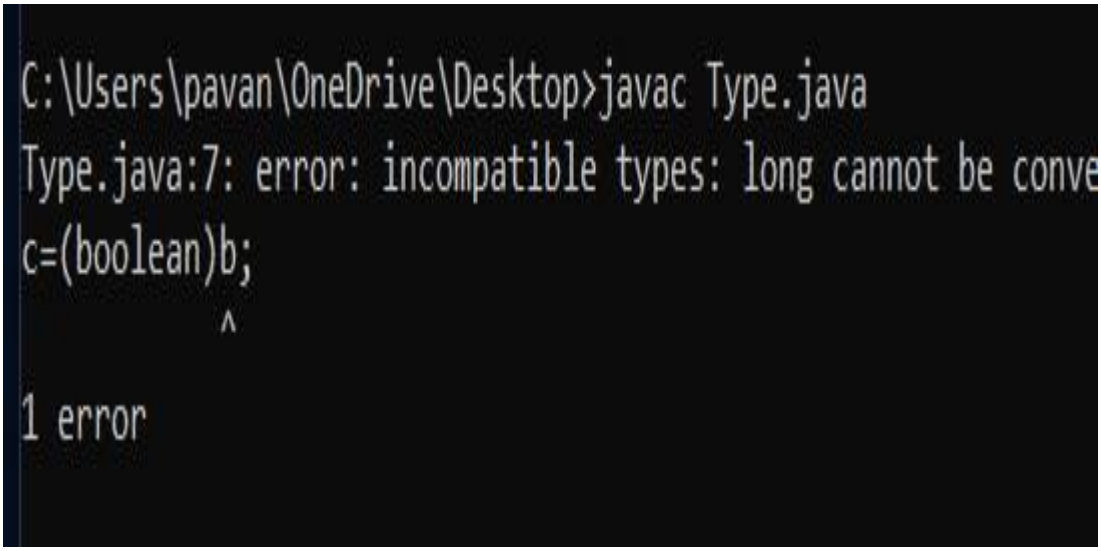


Conclusion: It is possible

explicit conversion

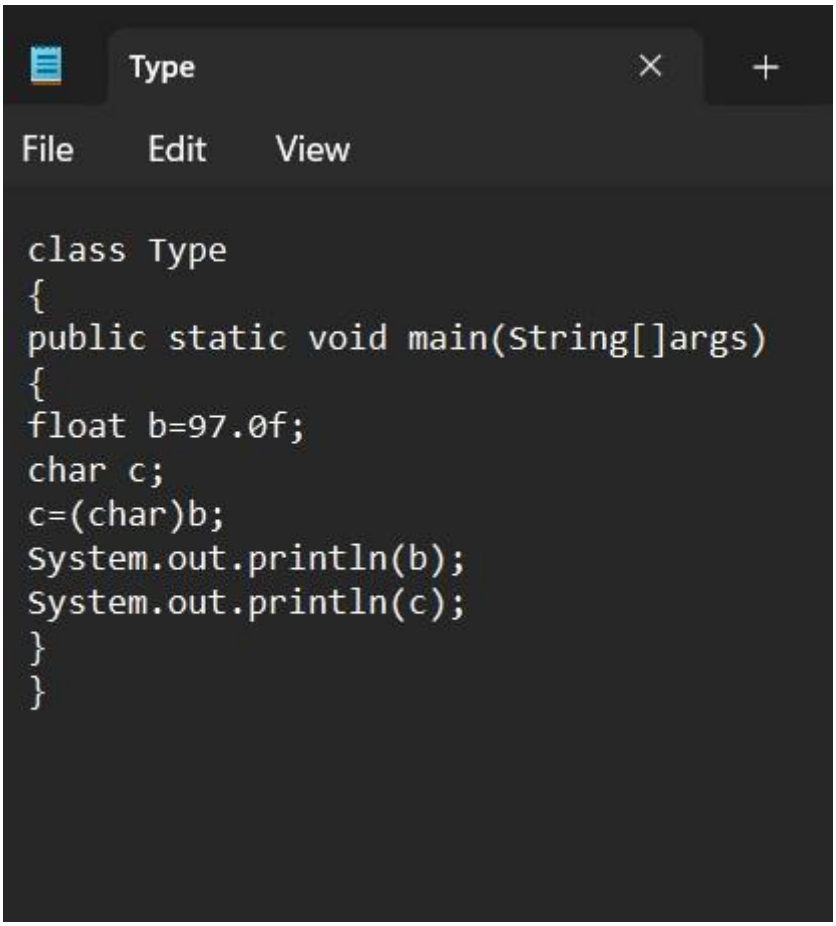
program:

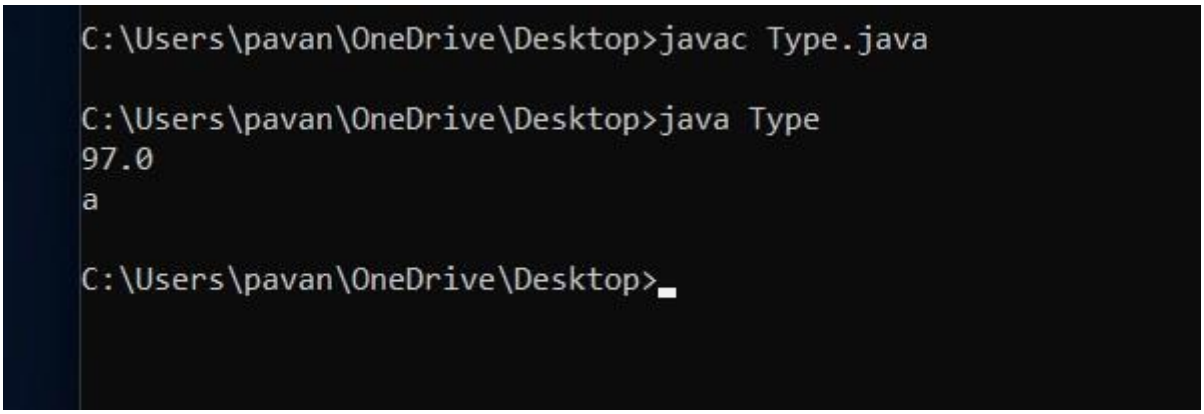




Conclusion: It is not possible

Program:

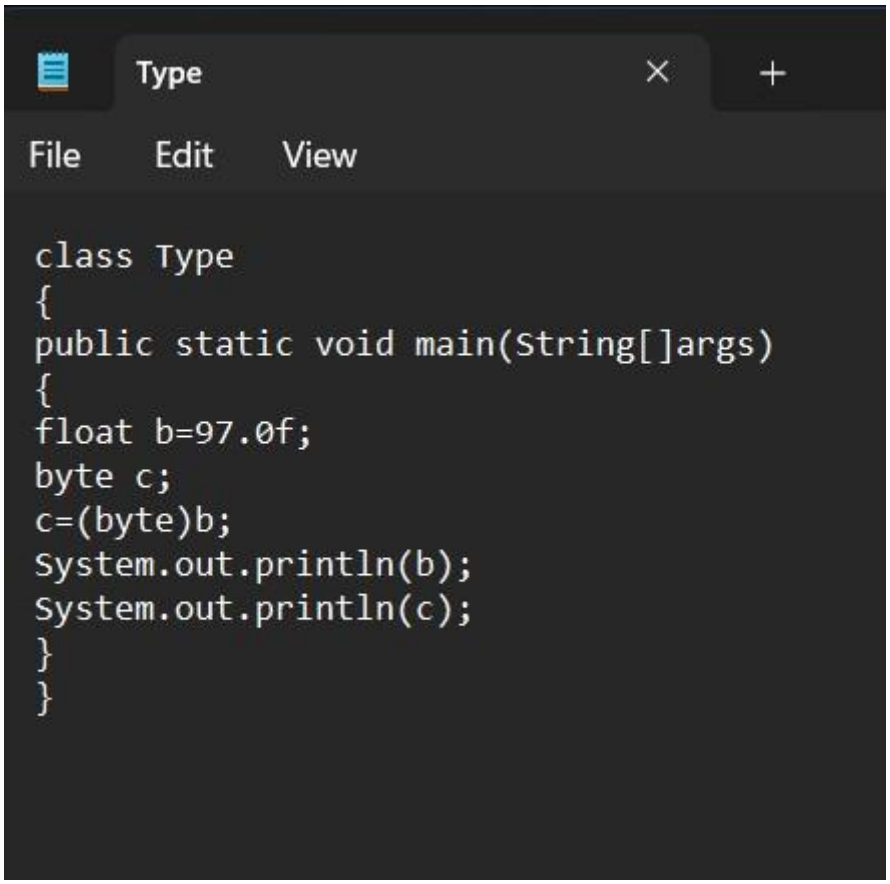


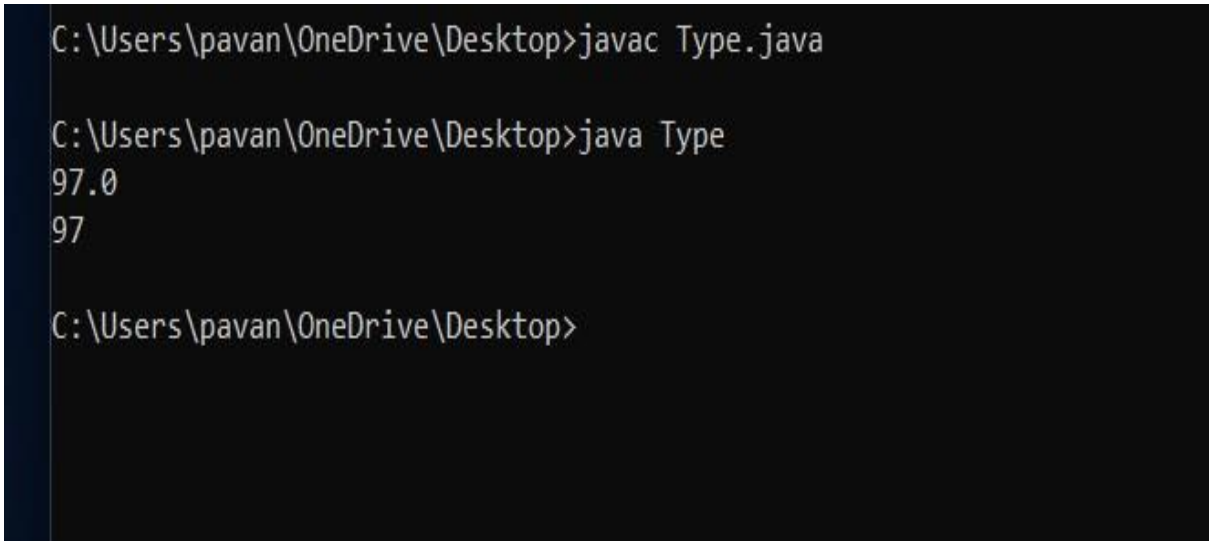


Conclusion: It is possible

explicit conversion

program:

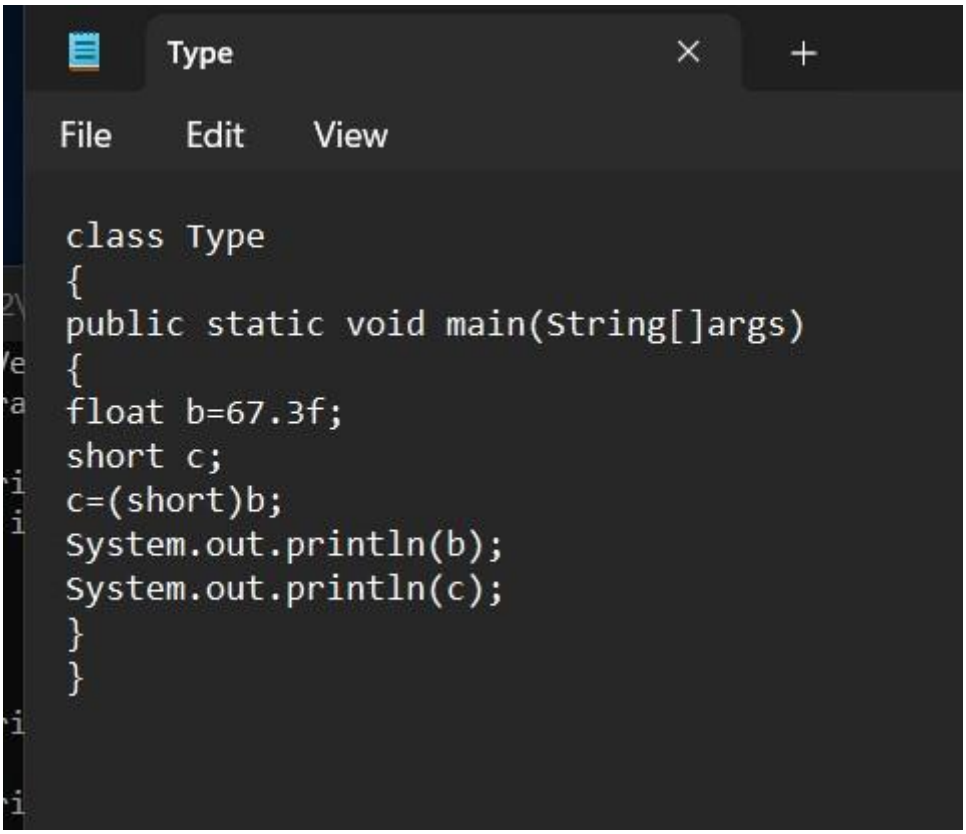




Conclusion: It is possible

explicit conversion

program:




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

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

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

Conclusion: It is possible

explicit conversion

program

Type

File Edit View

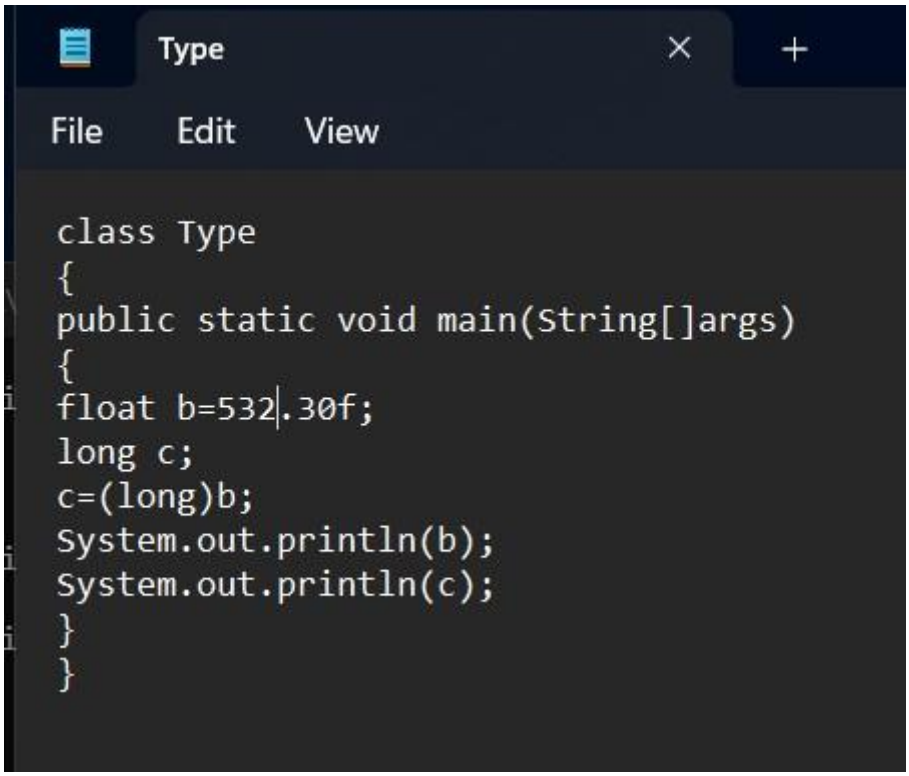
```
class Type
{
public static void main(String[]args)
{
float b=53.30f;
int c;
c=(int)b;
System.out.println(b);
System.out.println(c);
}
}
```

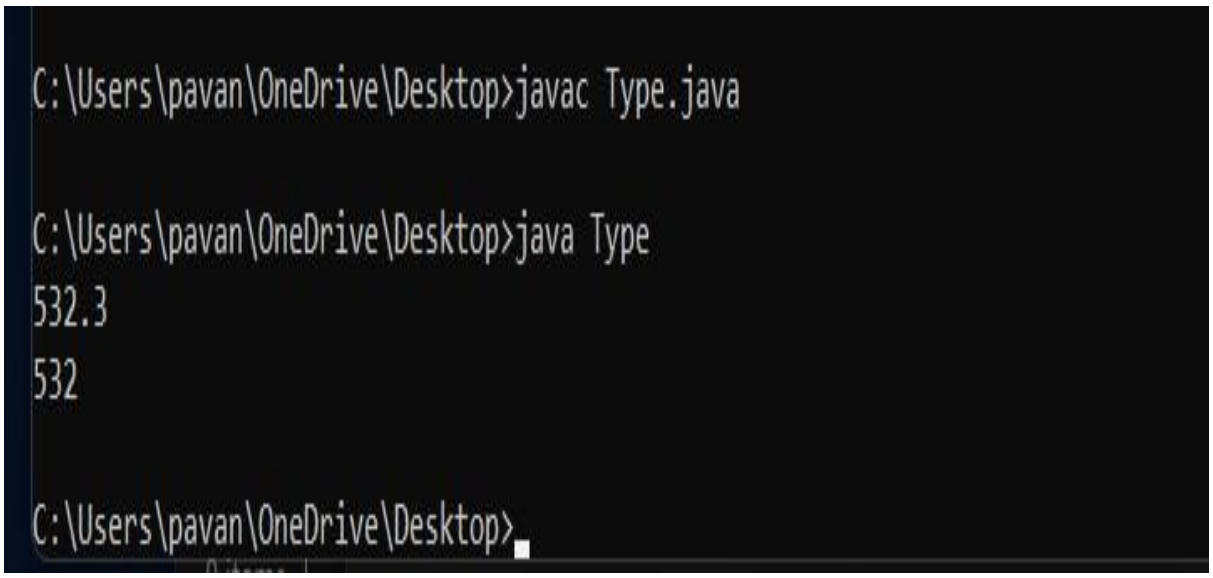
```
C:\Users\pavan\OneDrive\Desktop>javac Type.java

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

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

Conclusion: It is possible

explicit conversion

program:

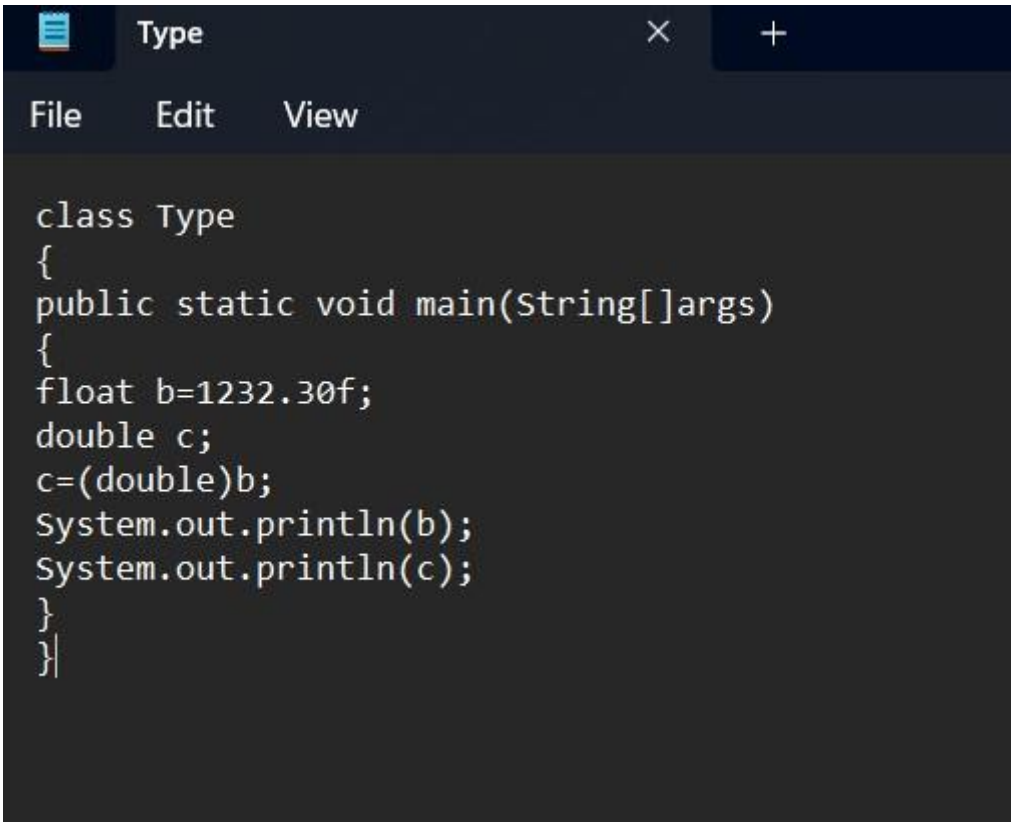


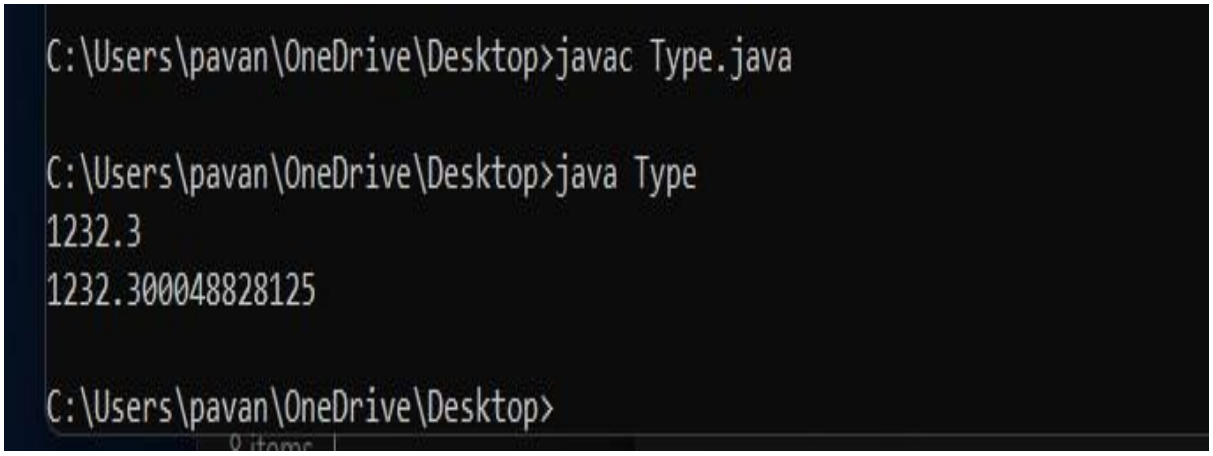


Conclusion: It is possible

explicit conversion

program:

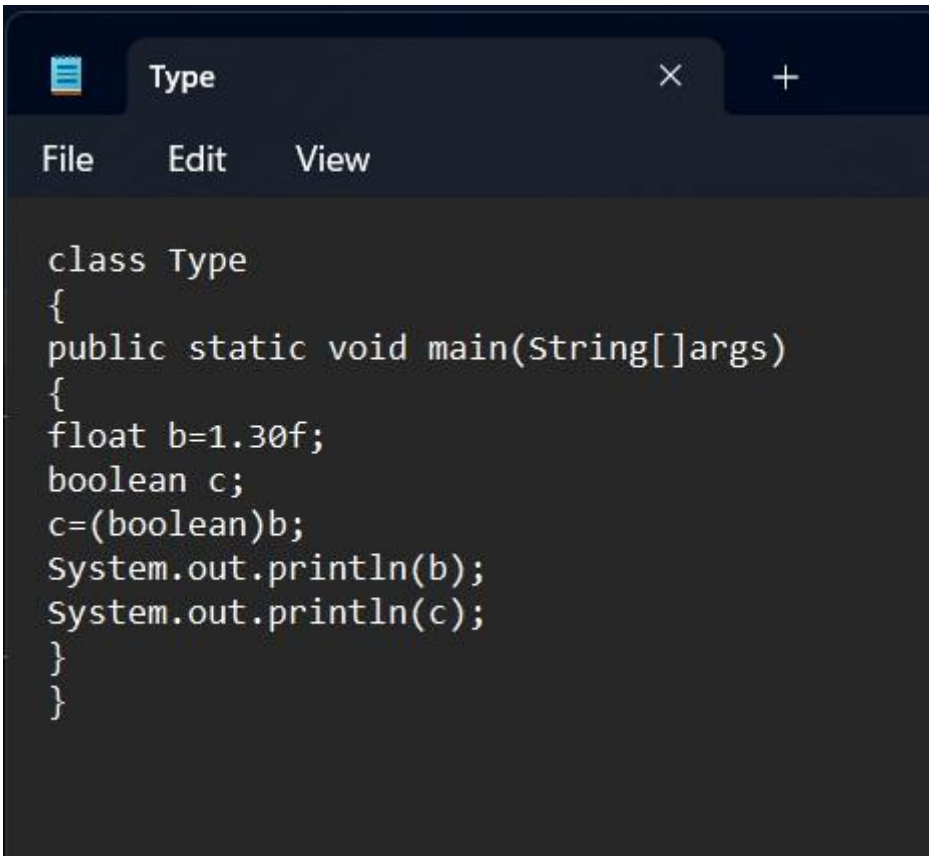


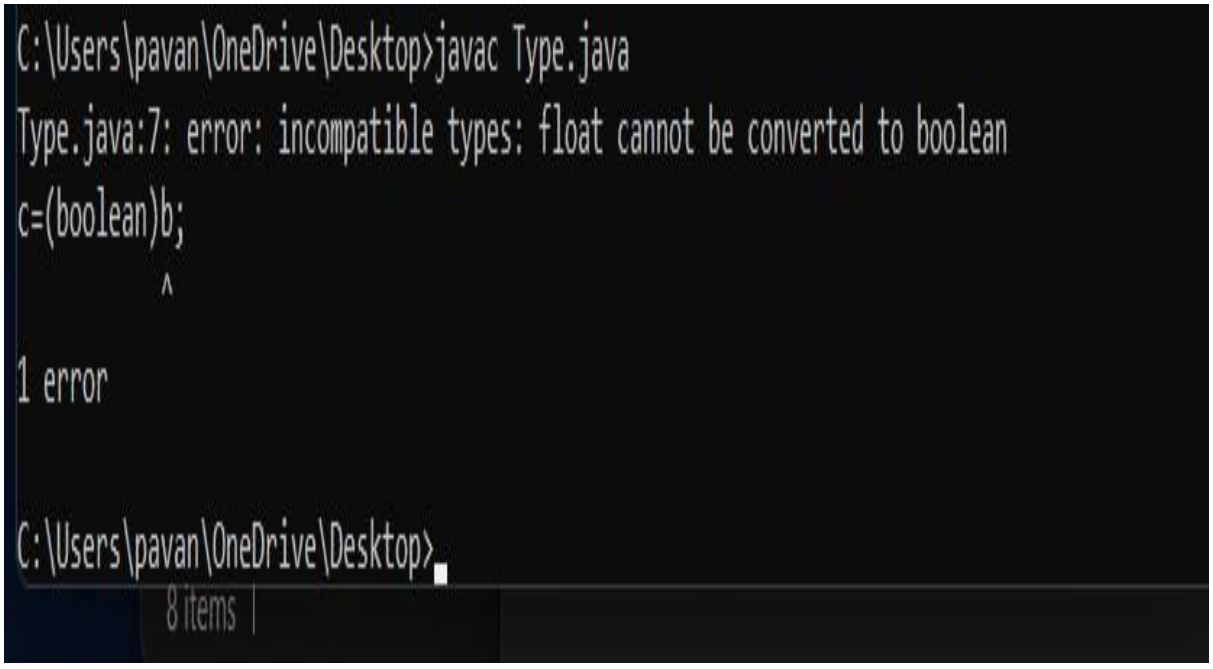


Conclusion: It is possible

explicit conversion

program:





Conclusion: It is not possible

Program:

Type

File Edit View

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

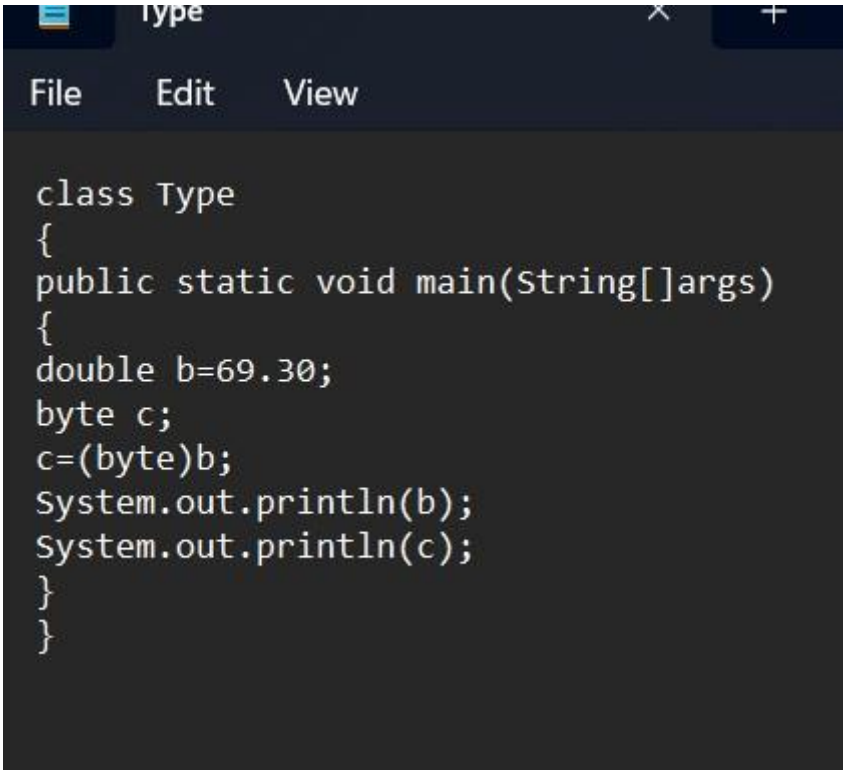
```
C:\Users\pavan\OneDrive\Desktop>javac Type.java

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

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

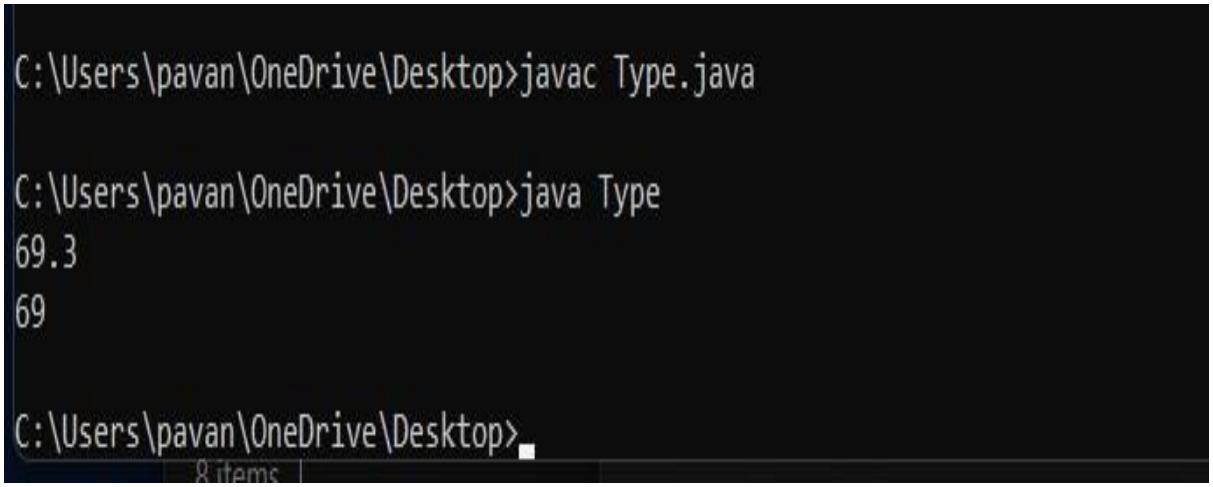
8 items

Conclusion: It is possible

explicit conversion

program:





Conclusion: It is possible

explicit conversion

program:

Type

File Edit View

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

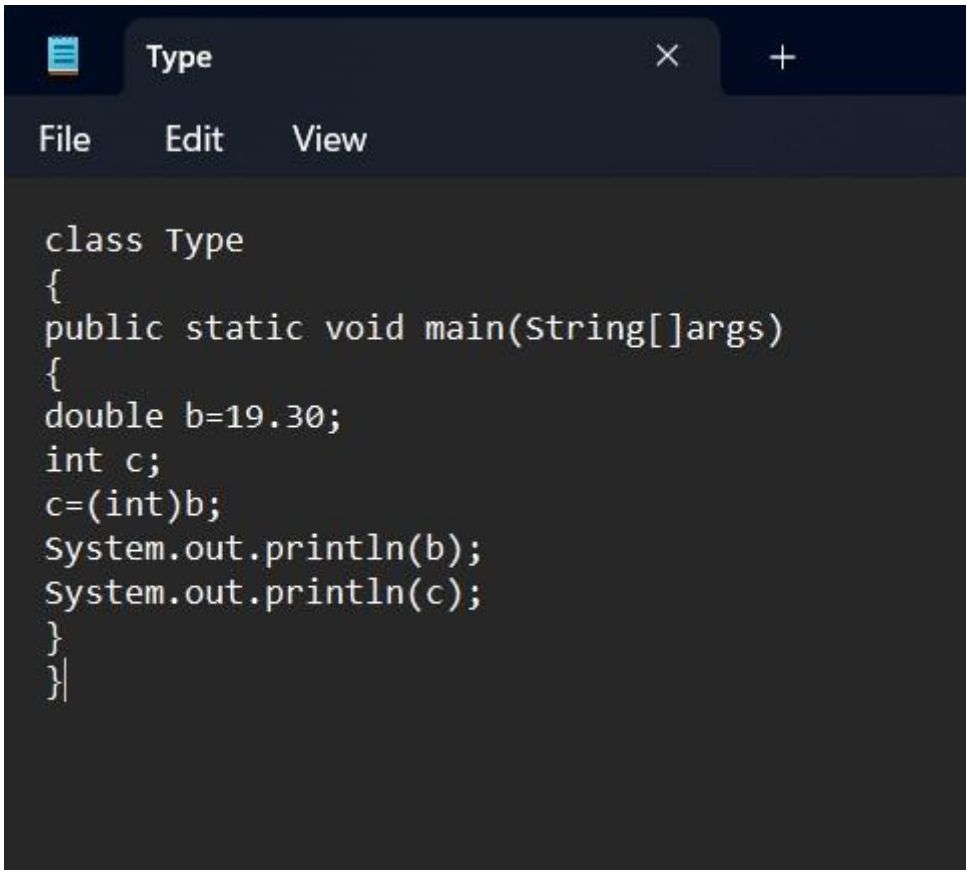
```
C:\Users\pavan\OneDrive\Desktop>javac Type.java

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

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

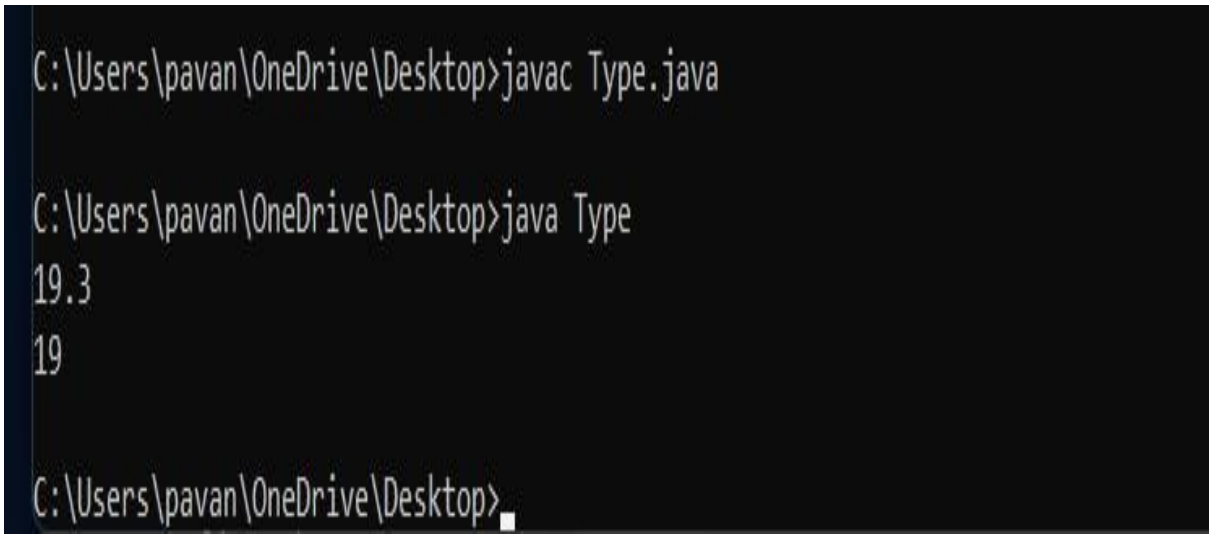
8 items

Conclusion: It is possible

explicit conversion

program:





Conclusion: It is possible

explicit conversion

program:

Type

File Edit View

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

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

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

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

Conclusion: It is possible explicit conversion

program:

Type

File Edit View

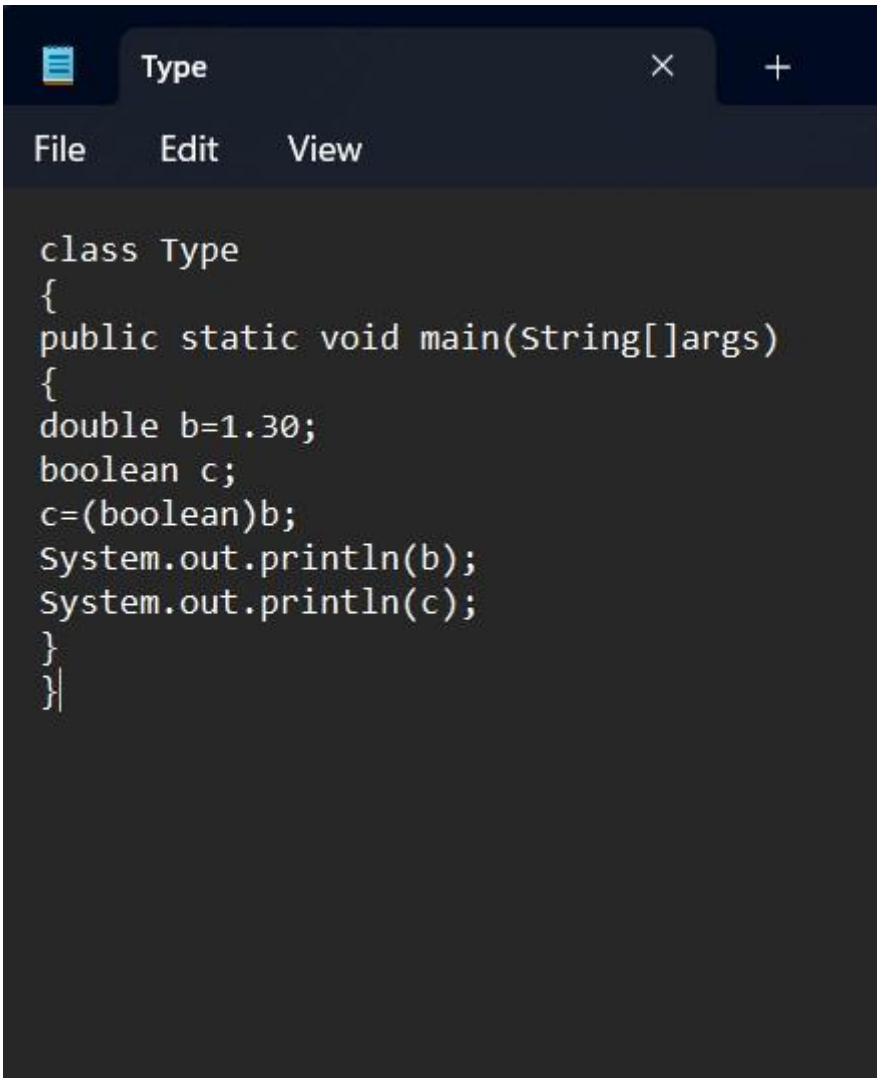
```
class Type
{
public static void main(String[]args)
{
double b=70.30;
float c;
c=(float)b;
System.out.println(b);
System.out.println(c);
}
}
```

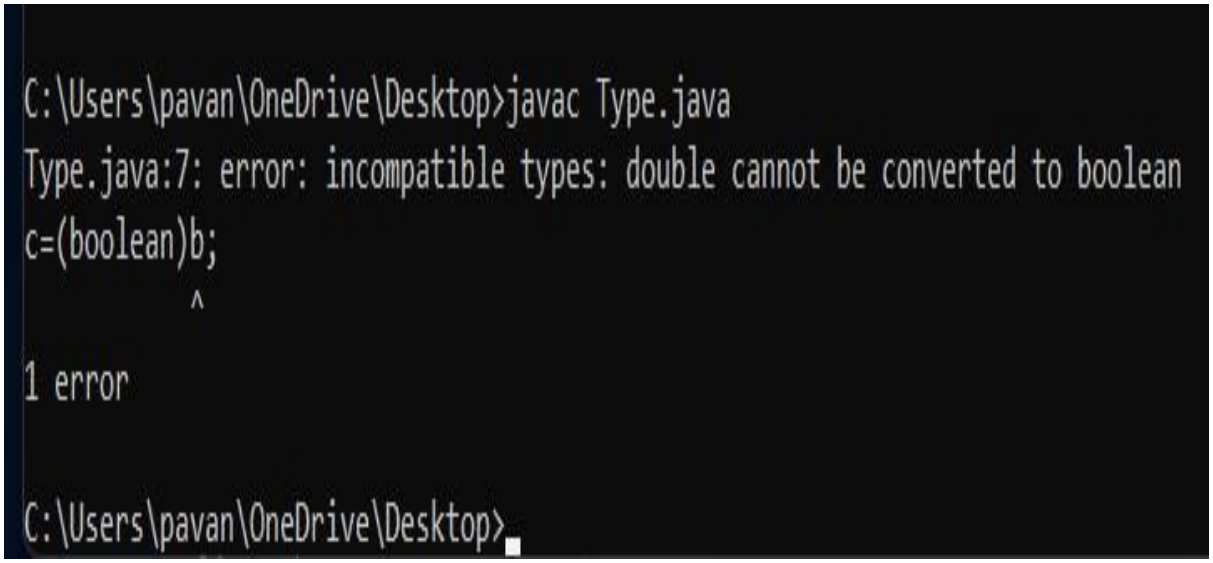
```
C:\Users\pavan\OneDrive\Desktop>javac Type.java

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

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

Conclusion: It is possible

explicit conversion

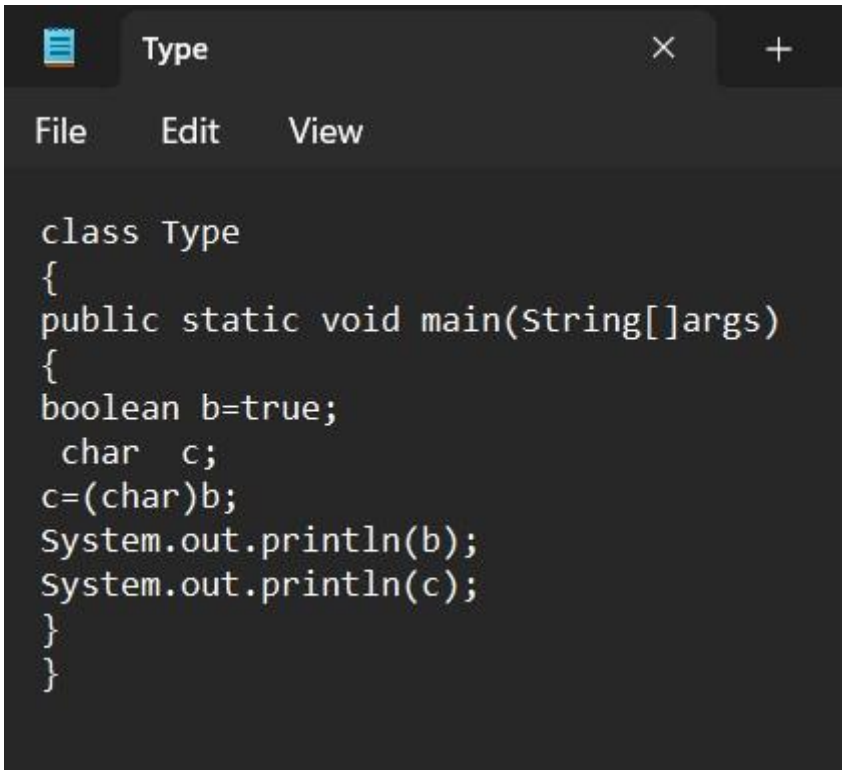
program:

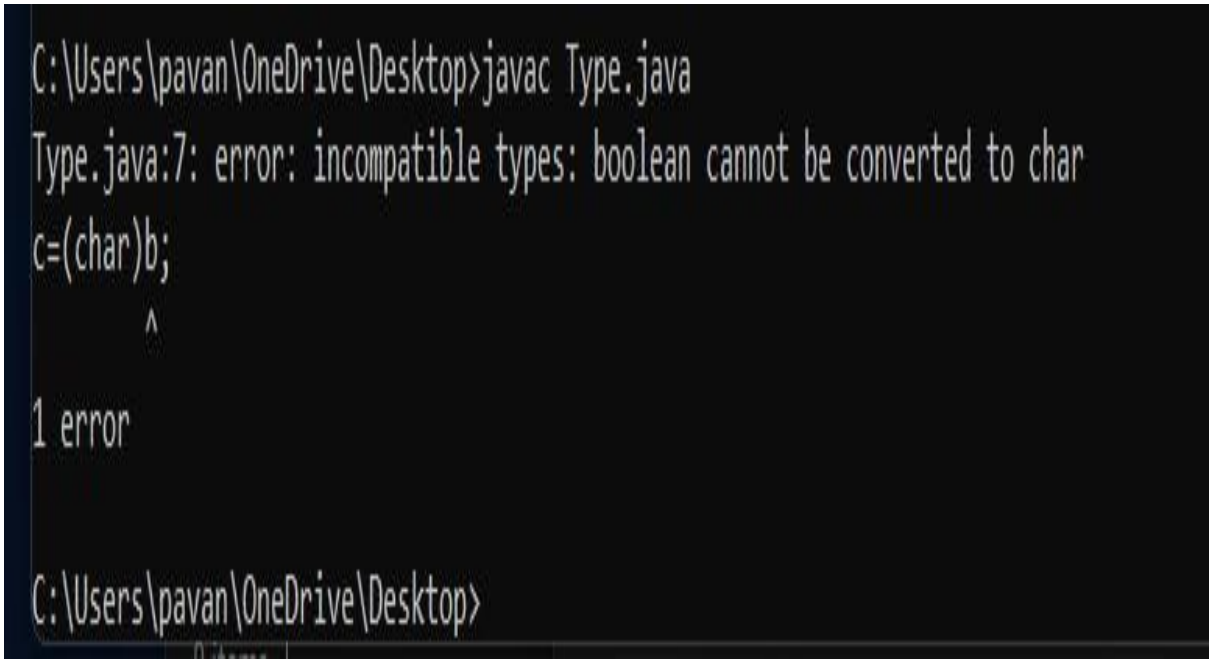




Conclusion: It is not possible

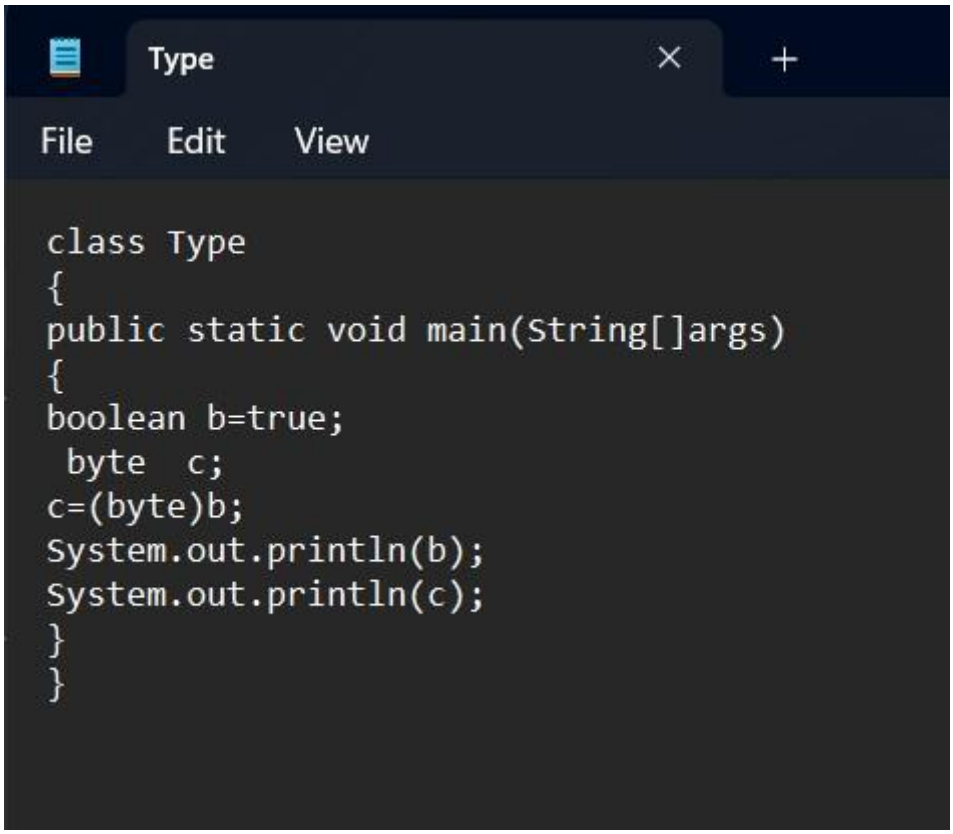
Program:





Conclusion: It is not possible

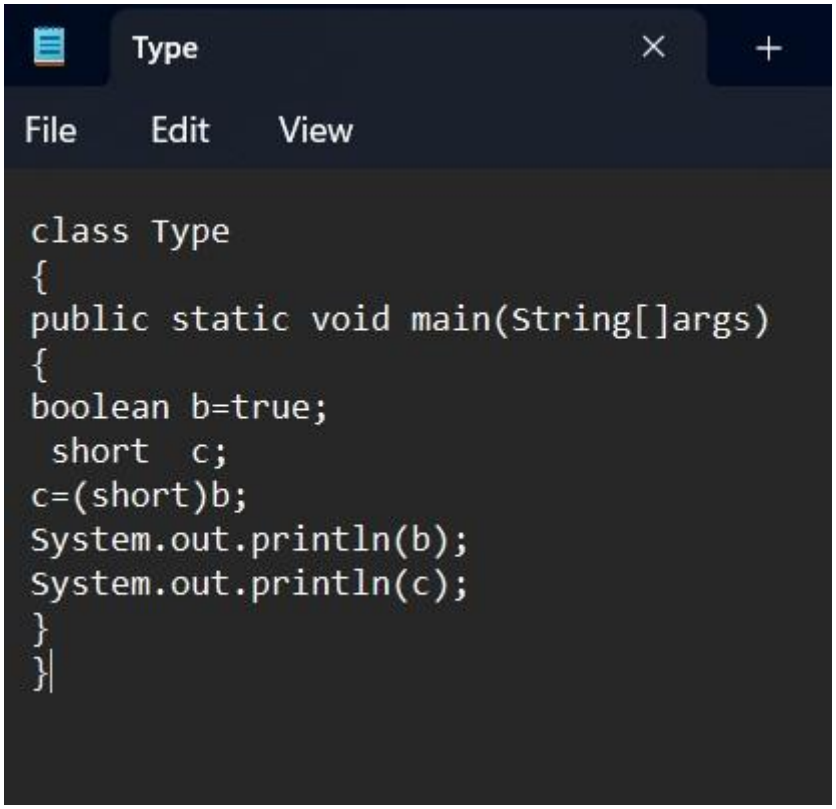
Program:




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

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

Conclusion: It is not possible

Program:

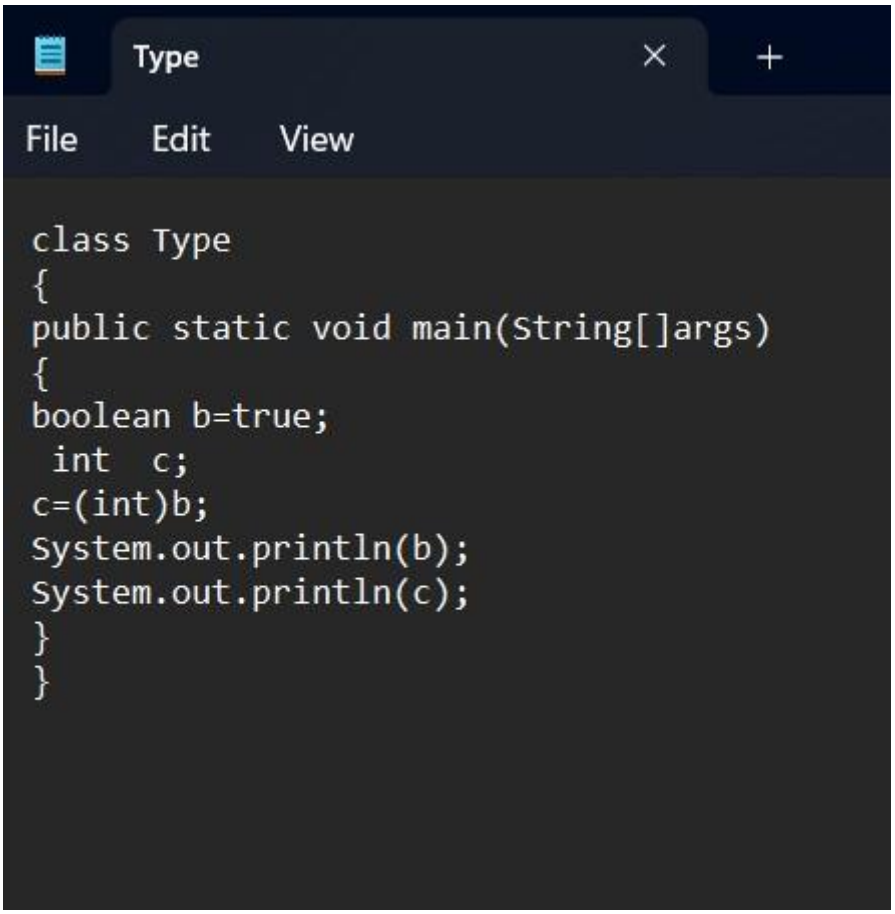


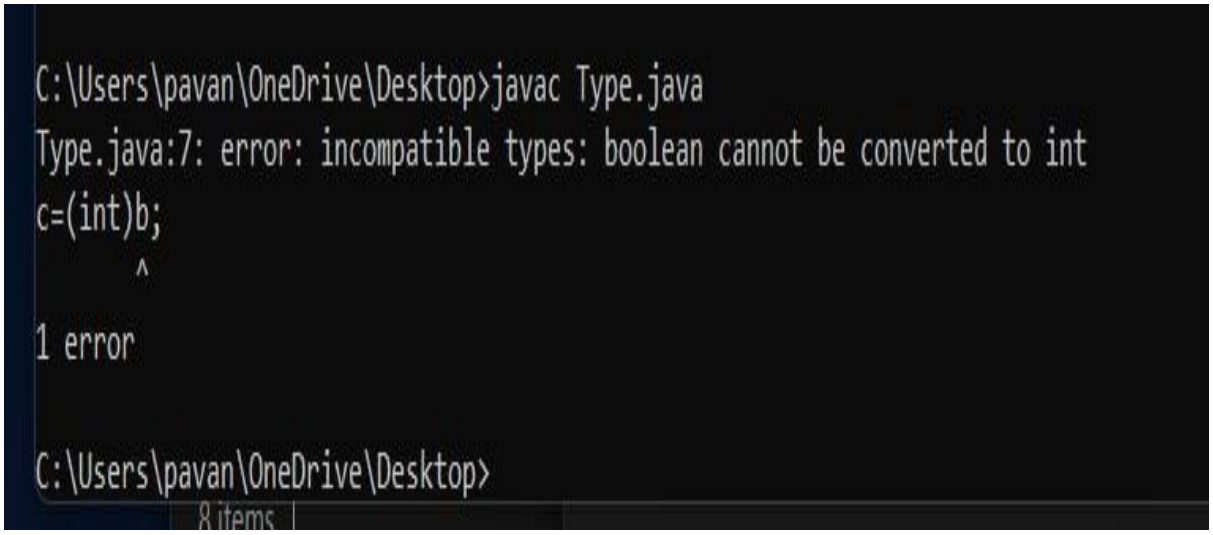

```
C:\Users\pavan\OneDrive\Desktop>javac Type.java
Type.java:7: error: incompatible types: boolean cannot be converted to short
c=(short)b;
        ^
1 error

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

8 items

Conclusion: It is not possible

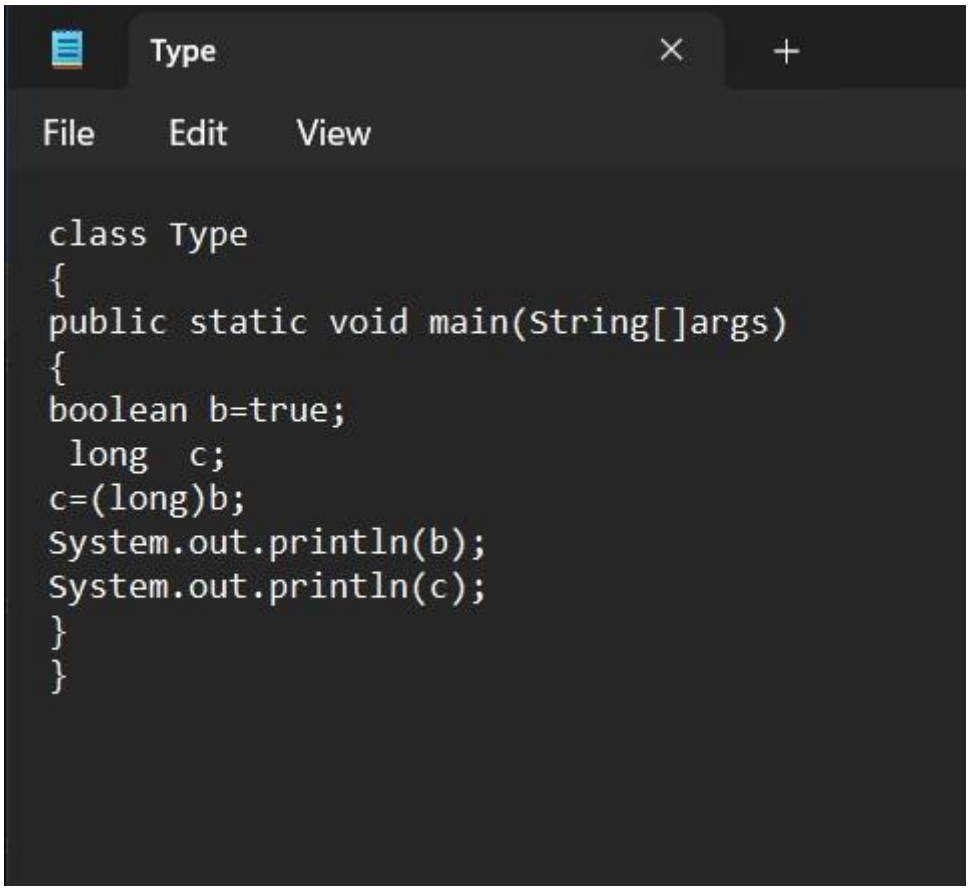
Program:





Conclusion: It is not possible

Program:



Conclusion: It is not possible

Program:

Type

File Edit View

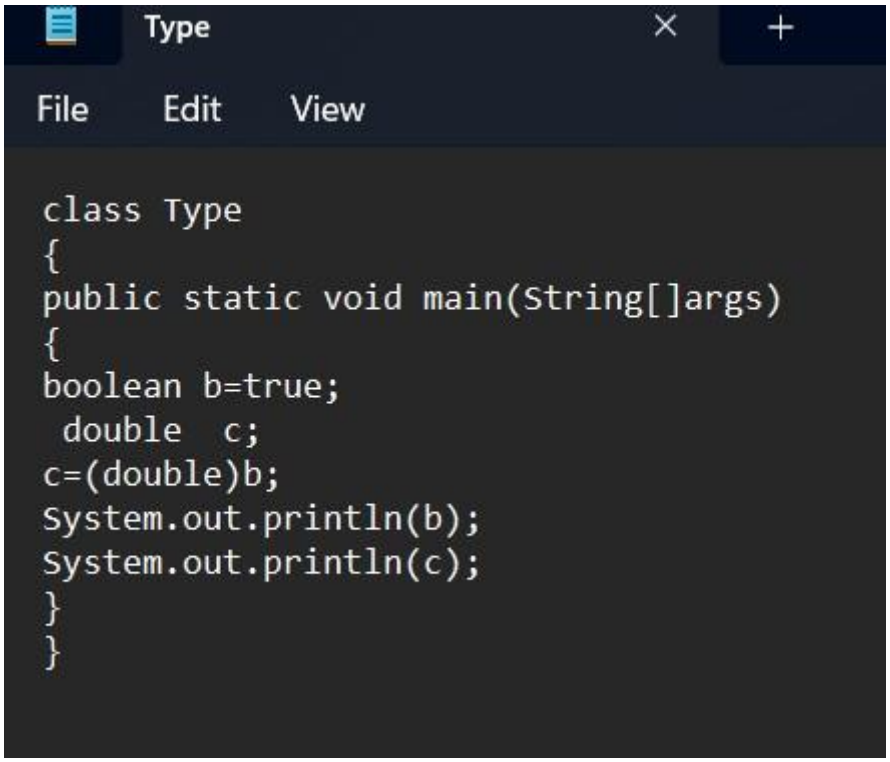
```
class Type
{
public static void main(String[]args)
{
boolean b=true;
 float  c;
c=(float)b;
System.out.println(b);
System.out.println(c);
}
}
```

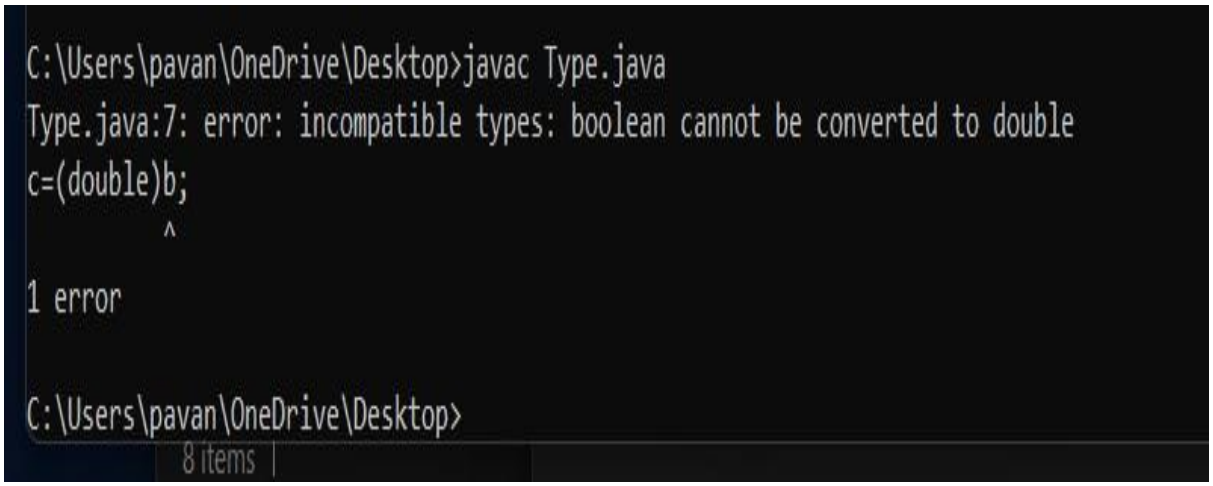
```
C:\Users\pavan\OneDrive\Desktop>javac Type.java
Type.java:7: error: incompatible types: boolean cannot be converted to float
c=(float)b;
       ^
1 error

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

8 items

Conclusion: It is not possible

Program:





Conclusion: It is not possible

	char	byte	short	Int	long	Float	double	boolean
char	CNR	✓ Explicit	✓ Explicit	✓ Implicit	✓ Implicit	✓ Implicit	✓ Implicit	× Not possible
byte	✓ Explicit	CNR	✓ Implicit	✓ Implicit	✓ Implicit	✓ Implicit	✓ Implicit	× Not possible
short	✓ Explicit	✓ Explicit	CNR	✓ Implicit	✓ Implicit	✓ Implicit	✓ Implicit	× Not possible
int	✓ Explicit	✓ Explicit	✓ Explicit	CNR	✓ Implicit	✓ Implicit	✓ Implicit	× Not possible
long	✓ Explicit	✓ Explicit	✓ Explicit	✓ Explicit	CNR	✓ Implicit	✓ Implicit	× Not possible
float	✓ Explicit	✓ Explicit	✓ Explicit	✓ Explicit	✓ Explicit	CNR	✓ Implicit	× Not possible
double	✓ Explicit	✓ Explicit	✓ Explicit	✓ Explicit	✓ Explicit	✓ Explicit	CNR	Not possible
boolean	× Not possible	× Not possible	× Not possible	× Not possible	× Not possible	× Not possible	× Not possible	CNR