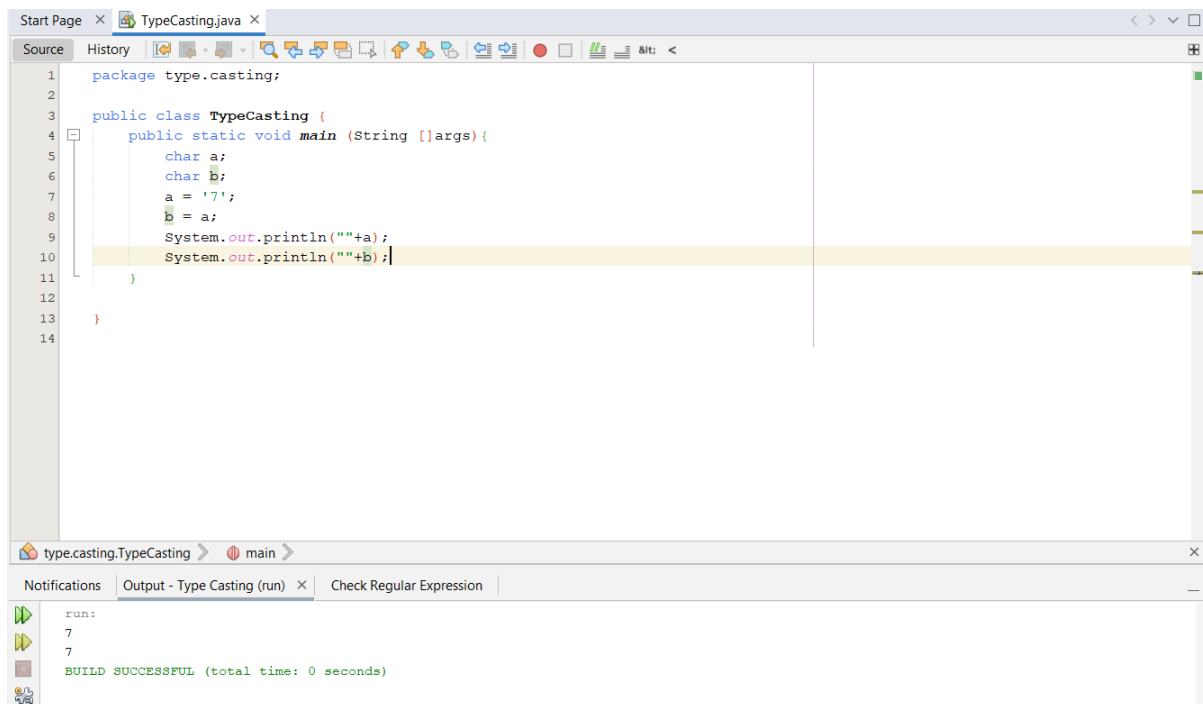# Assignment on Typecasting

Submitted by: Akash Sharad Badgujar

1. char to char
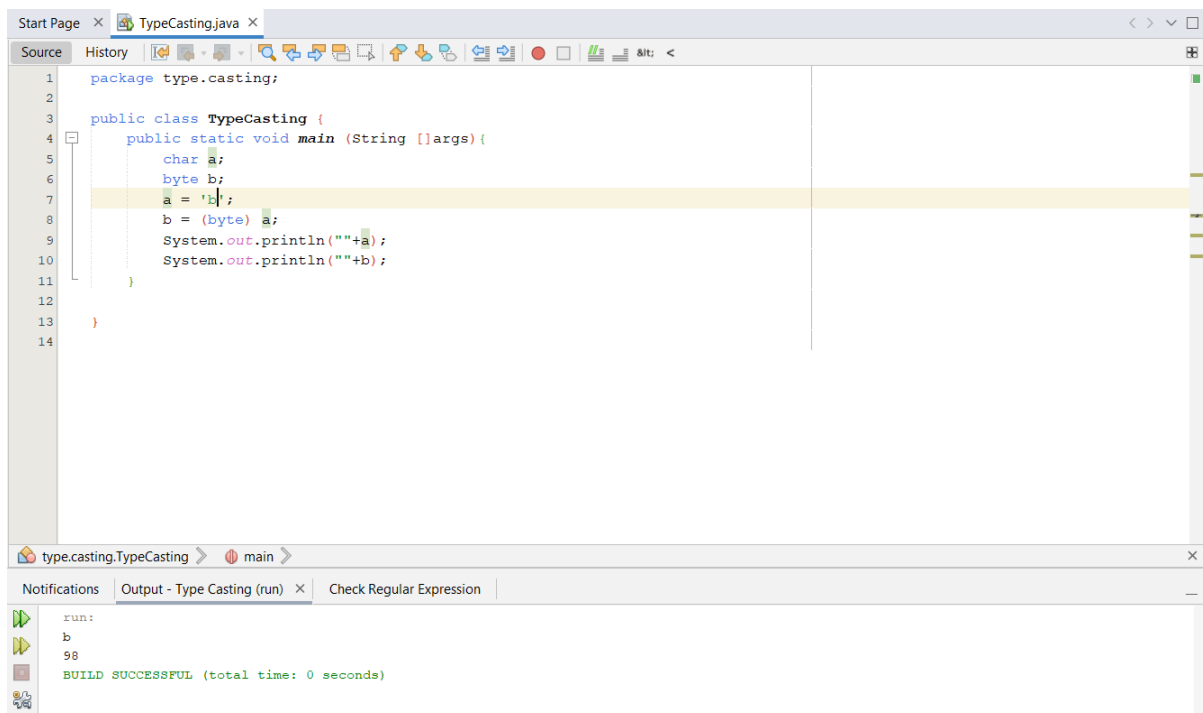


```
package type.casting;

public class TypeCasting {
    public static void main (String []args){
        char a;
        char b;
        a = '7';
        b = a;
        System.out.println(""+a);
        System.out.println(""+b);
    }

}
```

```
run:
7
7
BUILD SUCCESSFUL (total time: 0 seconds)
```

Typecasting not required

2. char to byte


```
package type.casting;

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

}
```

```
run:
b
98
BUILD SUCCESSFUL (total time: 0 seconds)
```

Explicit typecasting required

3. char to short

```
1    package type.casting;
2
3    public class TypeCasting {
4        public static void main (String []args){
5            char a;
6            short b;
7            a = 'b';
8            b = (short) a;
9            System.out.println(""+a);
10           System.out.println(""+b);
11       }
12
13   }
14
```

type.casting.TypeCasting > main >

Notifications | Output - Type Casting (run) × | Check Regular Expression

```
run:
b
98
BUILD SUCCESSFUL (total time: 0 seconds)
```

Explicit typecasting required

4. char to int

```
1    package type.casting;
2
3    public class TypeCasting {
4        public static void main (String []args){
5            char a;
6            int b;
7            a = 'b';
8            b = a;
9            System.out.println(""+a);
10           System.out.println(""+b);
11       }
12
13   }
14
```
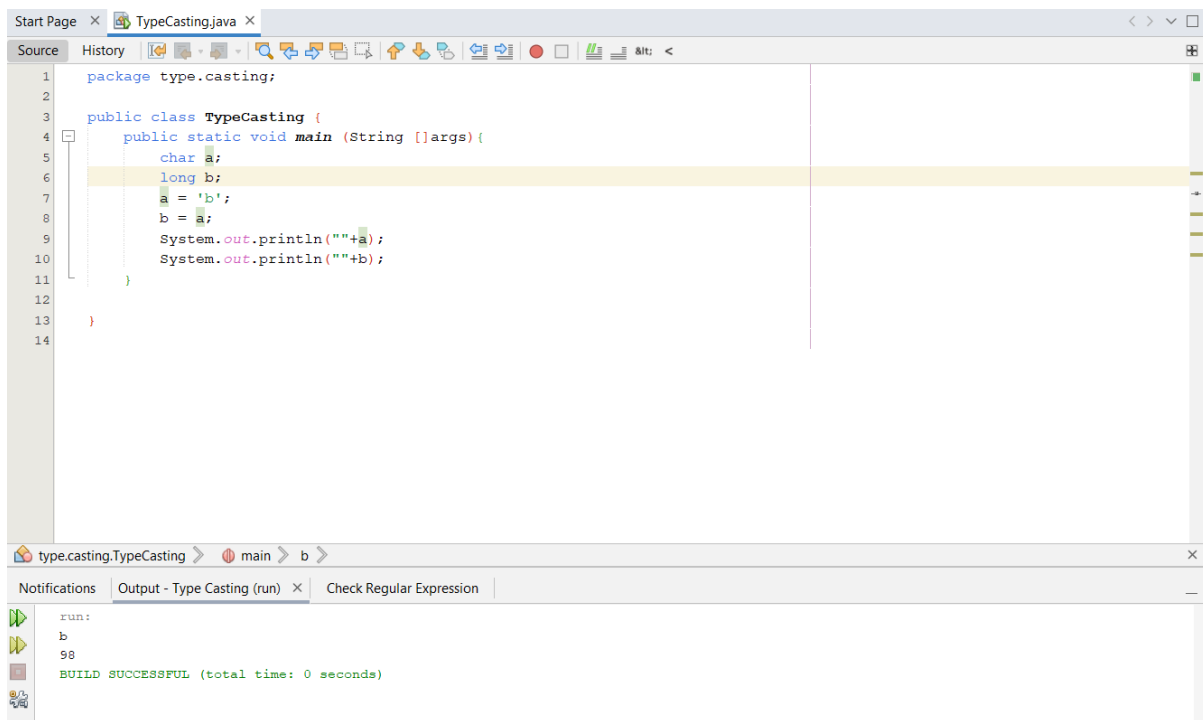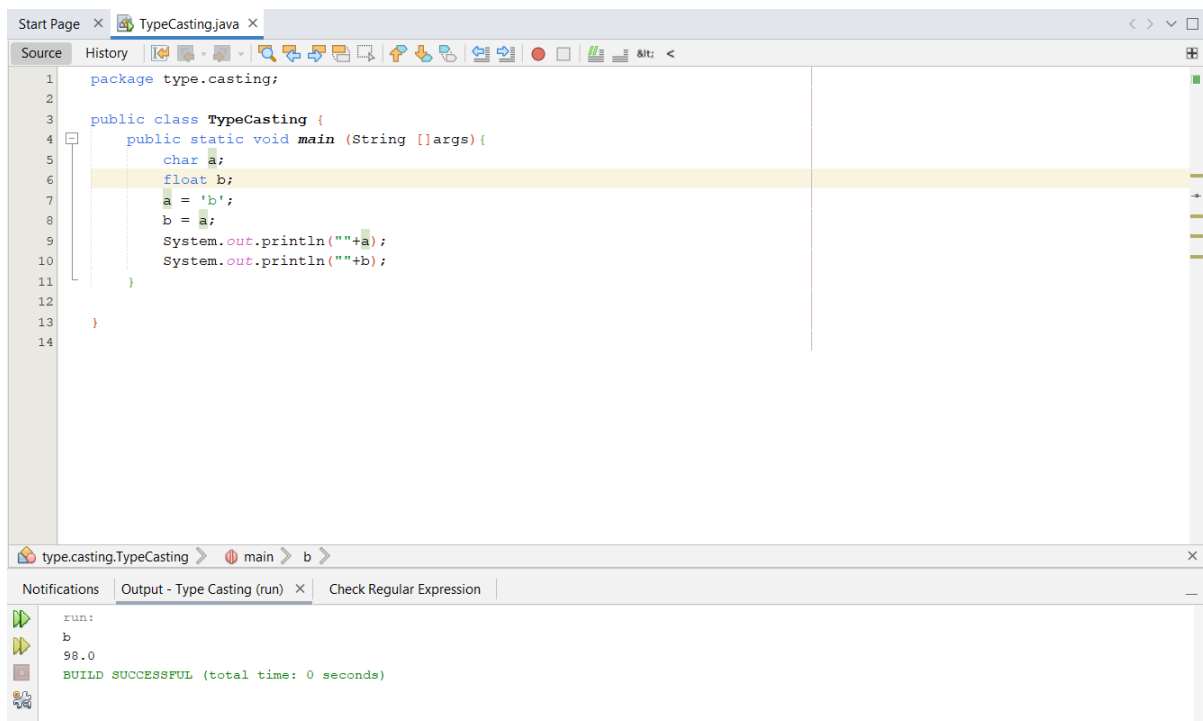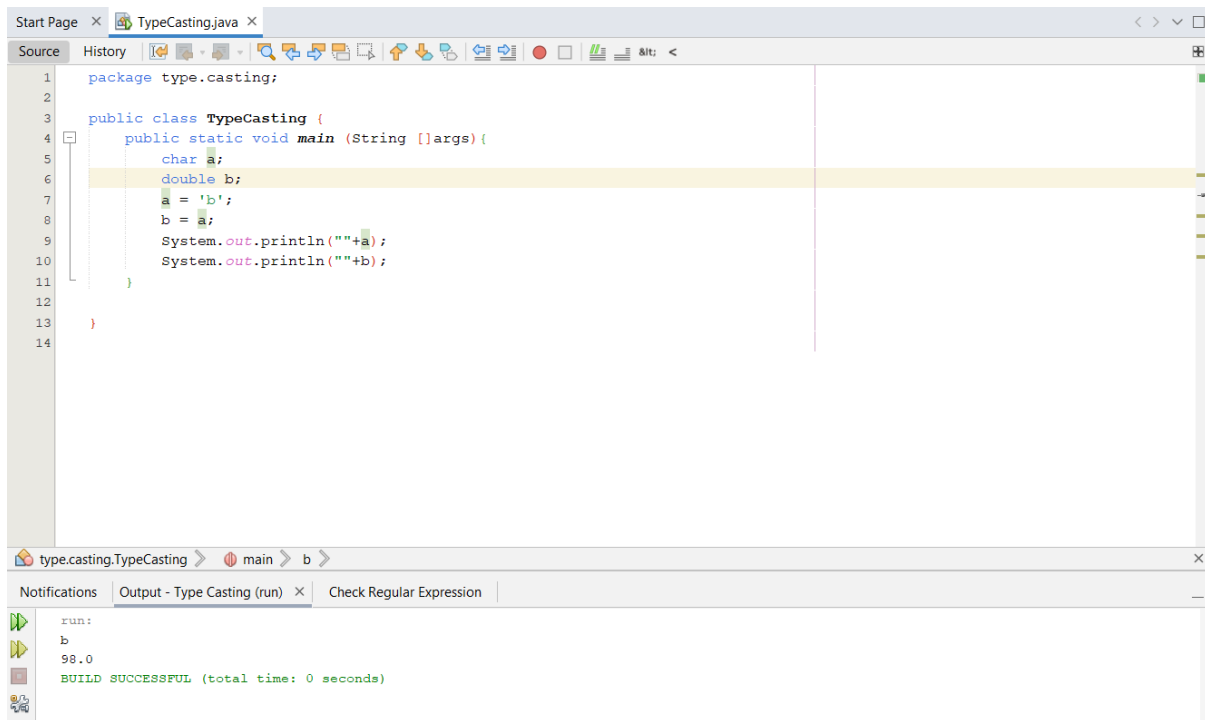
type.casting.TypeCasting > main > b >

Notifications | Output - Type Casting (run) × | Check Regular Expression

```
run:
b
98.0
BUILD SUCCESSFUL (total time: 0 seconds)
```

Implicit typecasting required

5. char to long


```java
package type.casting;

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

}
```

```
run:
b
98
BUILD SUCCESSFUL (total time: 0 seconds)
```

Implicit typecasting required
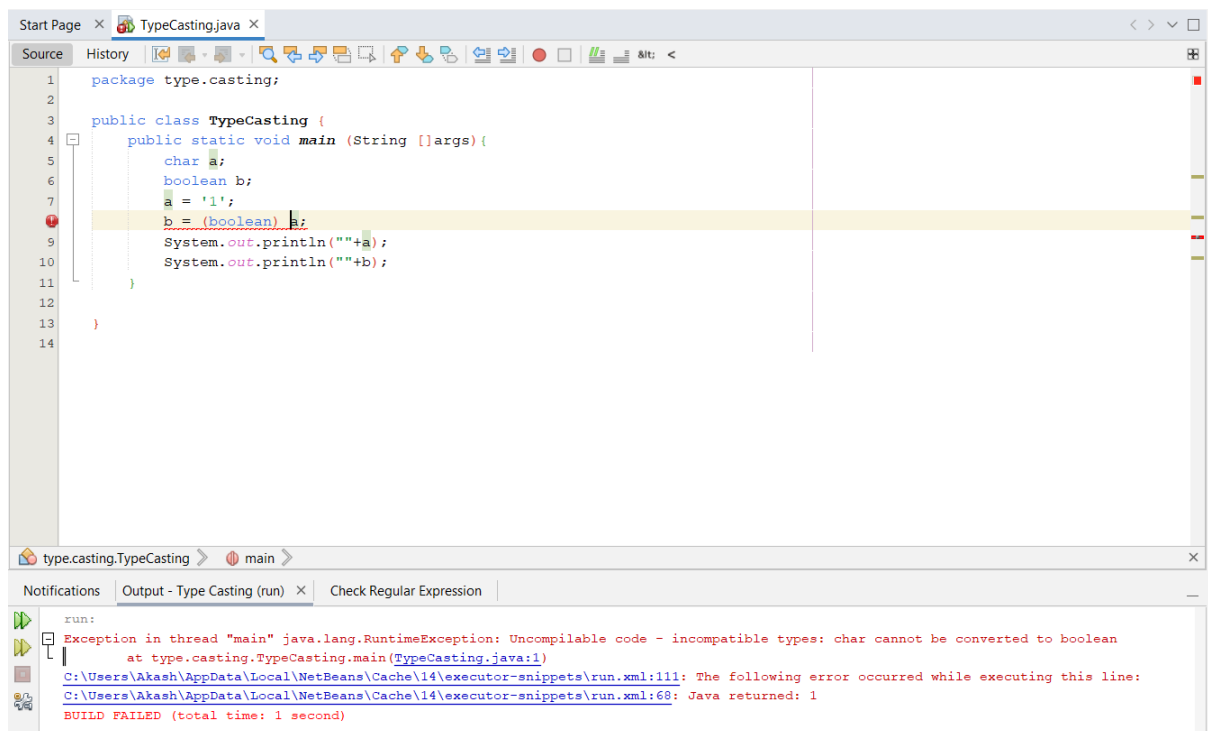
6. char to float


```java
package type.casting;

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

}
```

```
run:
b
98.0
BUILD SUCCESSFUL (total time: 0 seconds)
```

Implicit typecasting required

7. char to double
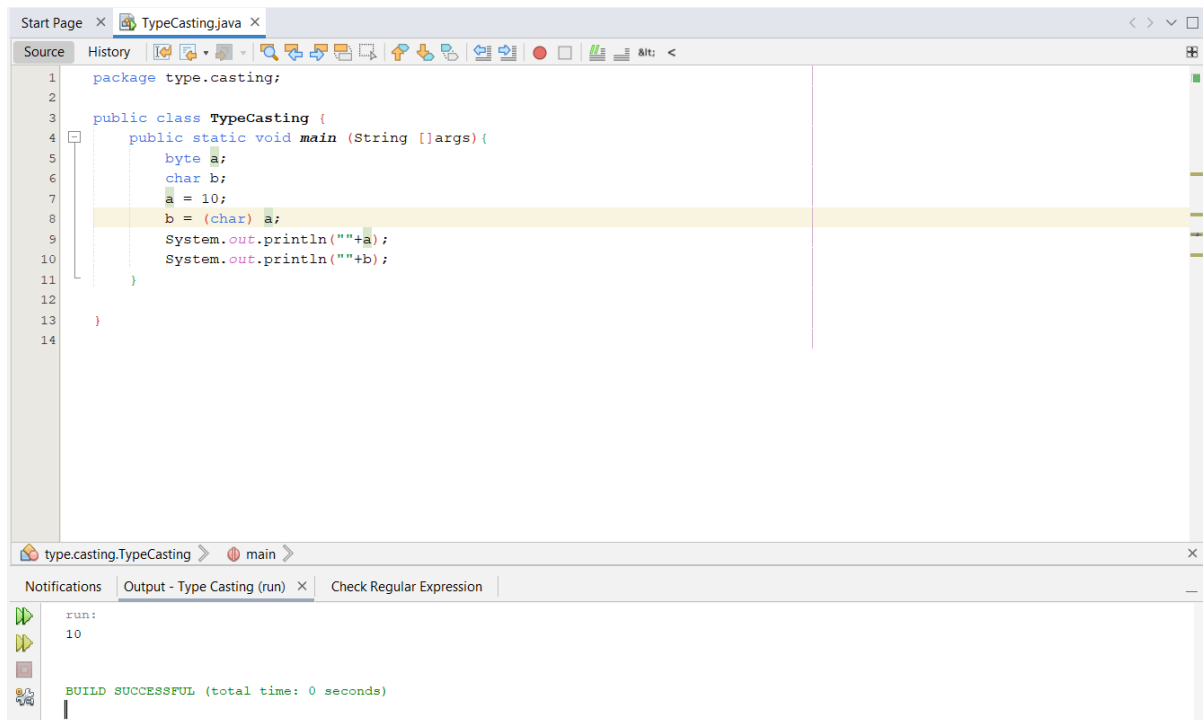


```java
package type.casting;

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

}
```

```
run:
b
98.0
BUILD SUCCESSFUL (total time: 0 seconds)
```

Implicit typecasting required

8. char to Boolean


```java
package type.casting;

public class TypeCasting {
    public static void main (String []args){
        char a;
        boolean b;
        a = '1';
        b = (boolean) a;
        System.out.println(""+a);
        System.out.println(""+b);
    }

}
```

```
run:
Exception in thread "main" java.lang.RuntimeException: Uncompilable code - incompatible types: char cannot be converted to boolean
        at type.casting.TypeCasting.main(TypeCasting.java:1)
C:\Users\Akash\AppData\Local\NetBeans\Cache\14\executor-snippets\run.xml:111: The following error occurred while executing this line:
C:\Users\Akash\AppData\Local\NetBeans\Cache\14\executor-snippets\run.xml:68: Java returned: 1
BUILD FAILED (total time: 1 second)
```
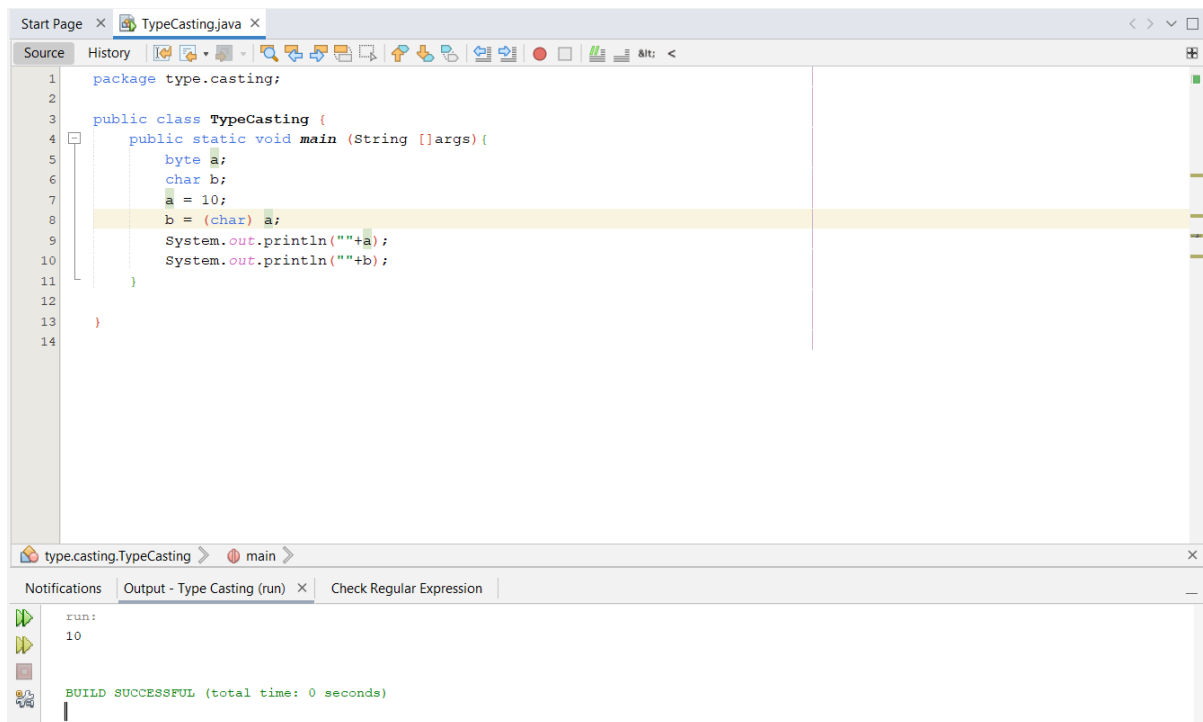
Typecasting cannot be done

9. byte to char

```
package type.casting;

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

}
```

```
run:
10

BUILD SUCCESSFUL (total time: 0 seconds)
```

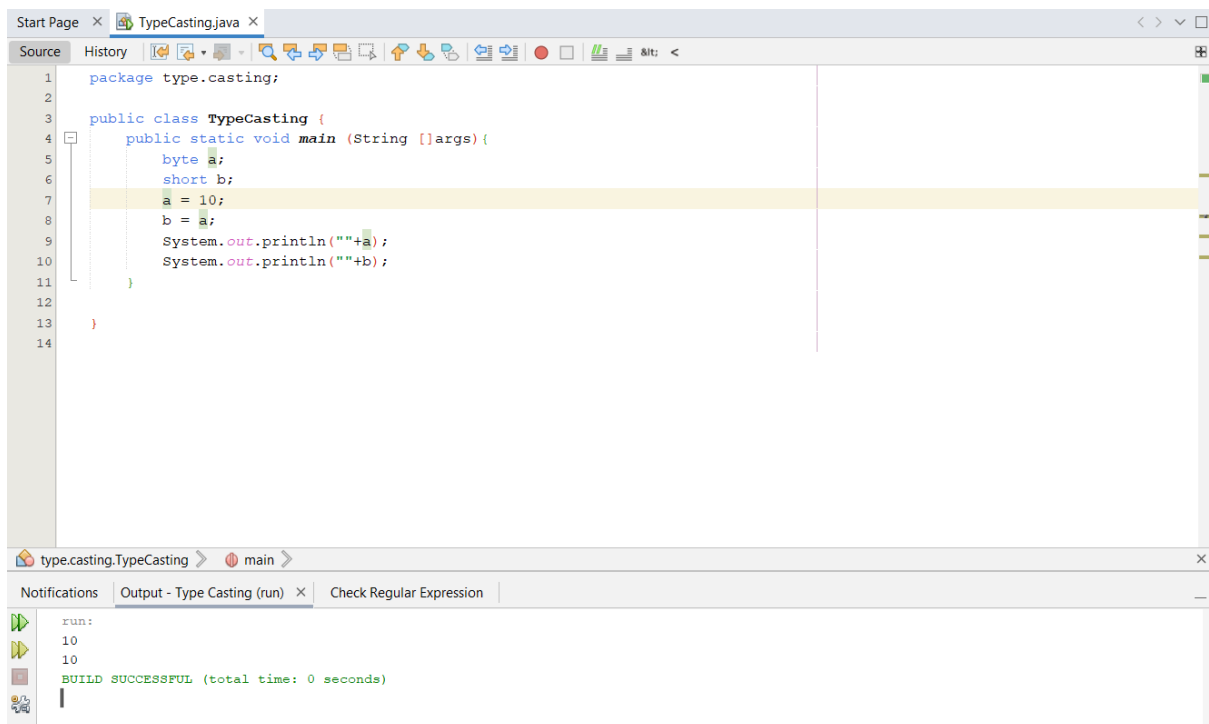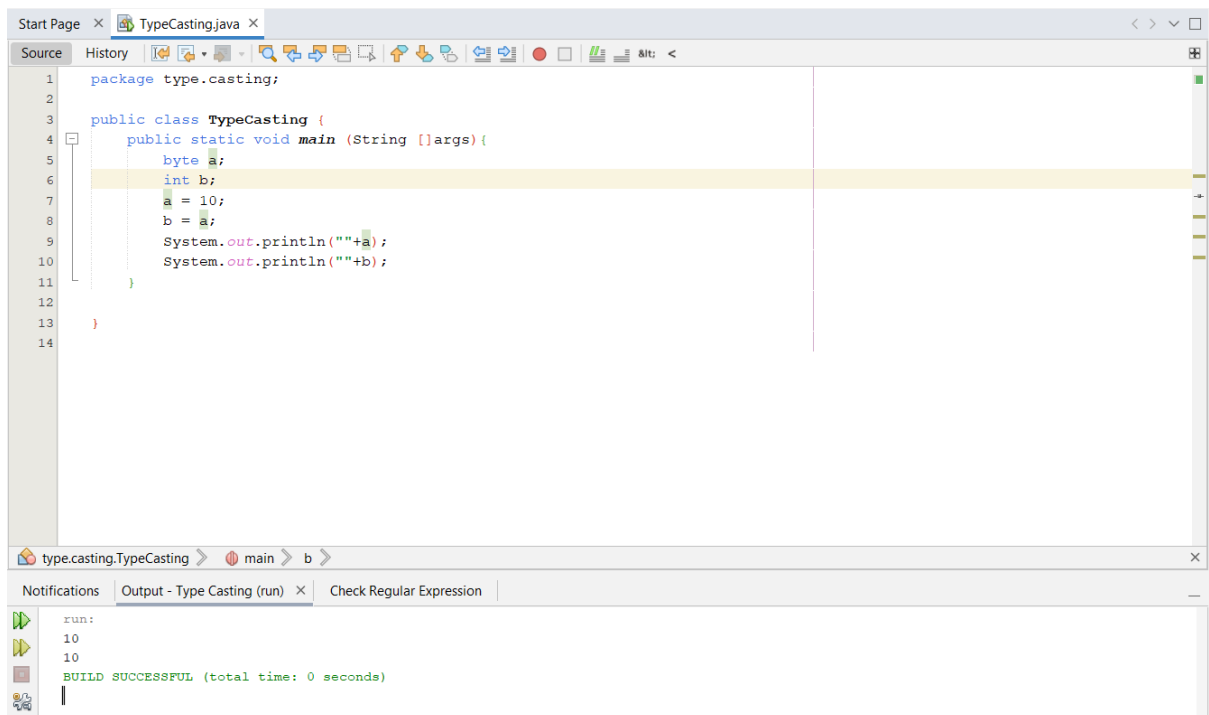## **Explicit typecasting Required**

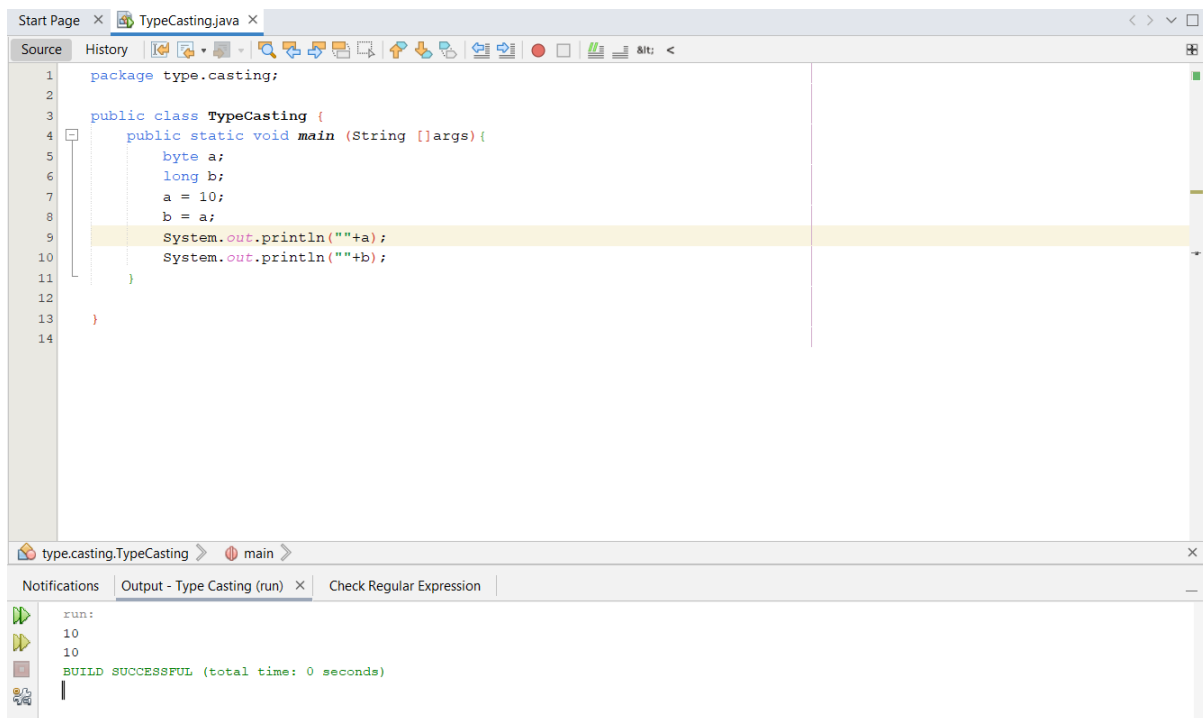## 10.   byte to byte

```
package type.casting;

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

}
```

```
run:
10

BUILD SUCCESSFUL (total time: 0 seconds)
```

Typecasting not required

11.   byte to short

```java
package type.casting;

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

}
```

```
run:
10
10
BUILD SUCCESSFUL (total time: 0 seconds)
```

Implicit typecasting required

12.   byte to int

```java
package type.casting;

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

}
```

```
run:
10
10
BUILD SUCCESSFUL (total time: 0 seconds)
```

Implicit typecasting required

13.   byte to long

```
Start Page ×  TypeCasting.java ×
Source  History
1    package type.casting;
2
3    public class TypeCasting {
4        public static void main (String []args){
5            byte a;
6            long b;
7            a = 10;
8            b = a;
9            System.out.println(""+a);
10           System.out.println(""+b);
11       }
12
13   }
14

type.casting.TypeCasting  >  main >

Notifications  Output - Type Casting (run) ×  Check Regular Expression
run:
10
10
BUILD SUCCESSFUL (total time: 0 seconds)
```
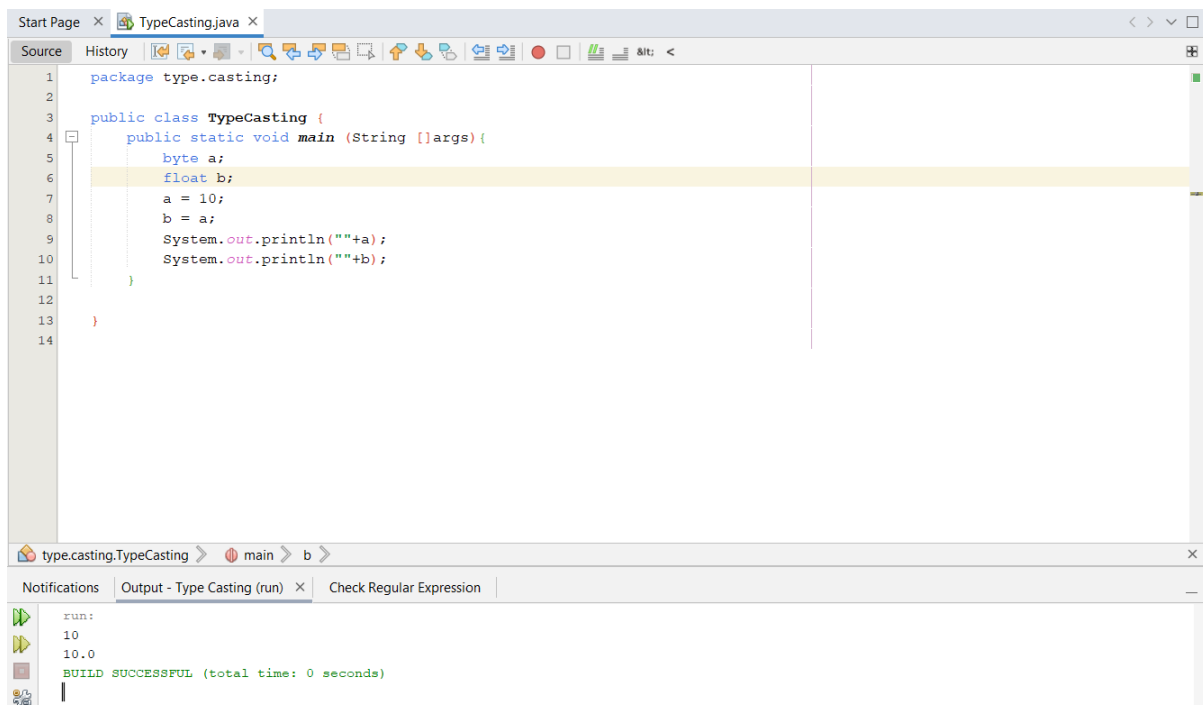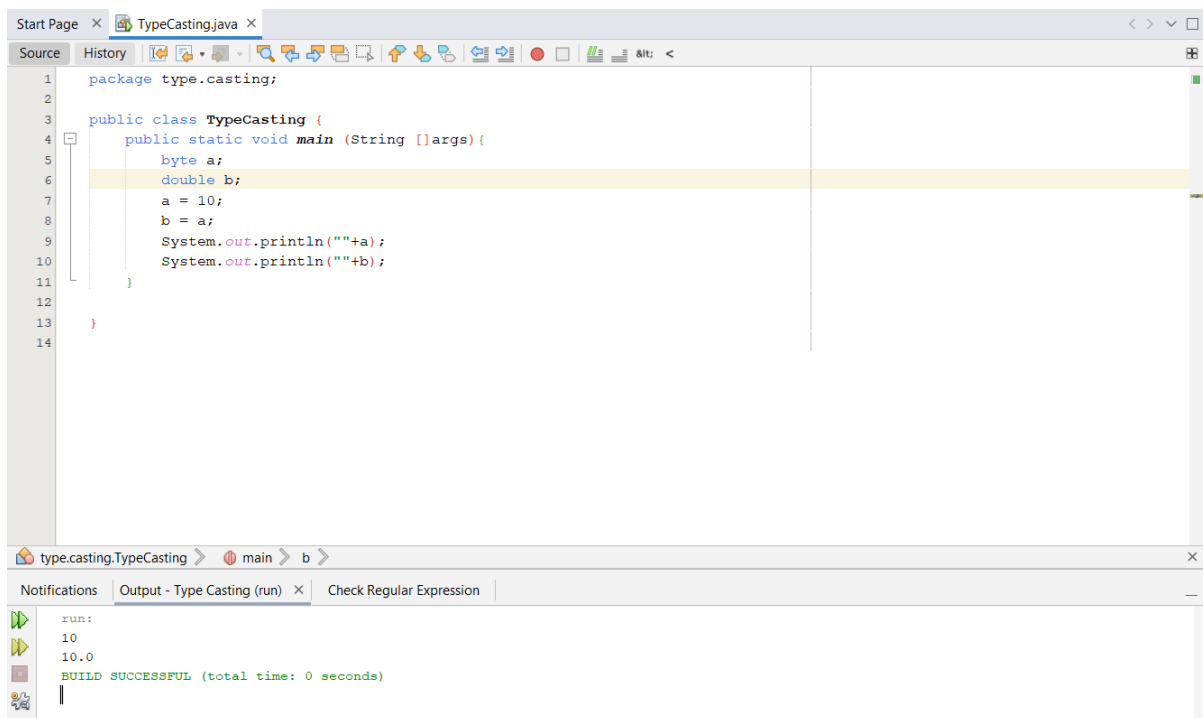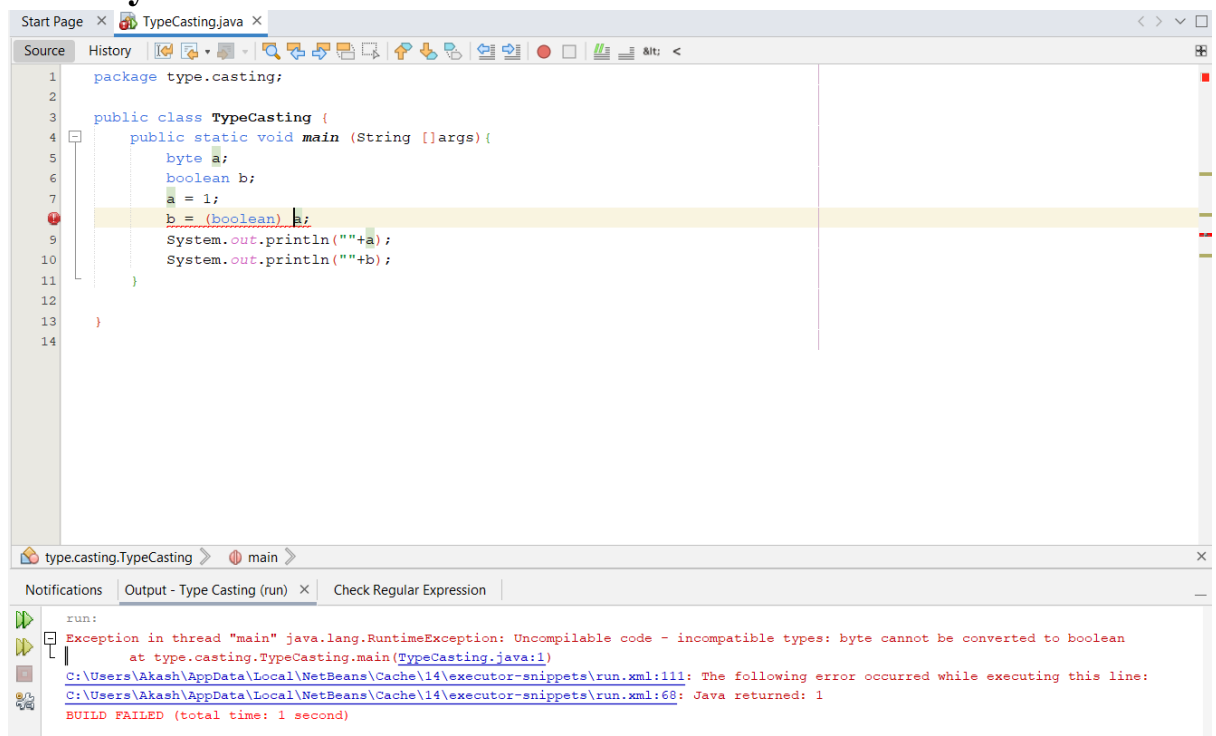
Implicit typecasting required

14.   byte to float

```
Start Page ×  TypeCasting.java ×
Source  History
1    package type.casting;
2
3    public class TypeCasting {
4        public static void main (String []args){
5            byte a;
6            float b;
7            a = 10;
8            b = a;
9            System.out.println(""+a);
10           System.out.println(""+b);
11       }
12
13   }
14

type.casting.TypeCasting  >  main >  b >

Notifications  Output - Type Casting (run) ×  Check Regular Expression
run:
10
10.0
BUILD SUCCESSFUL (total time: 0 seconds)
```
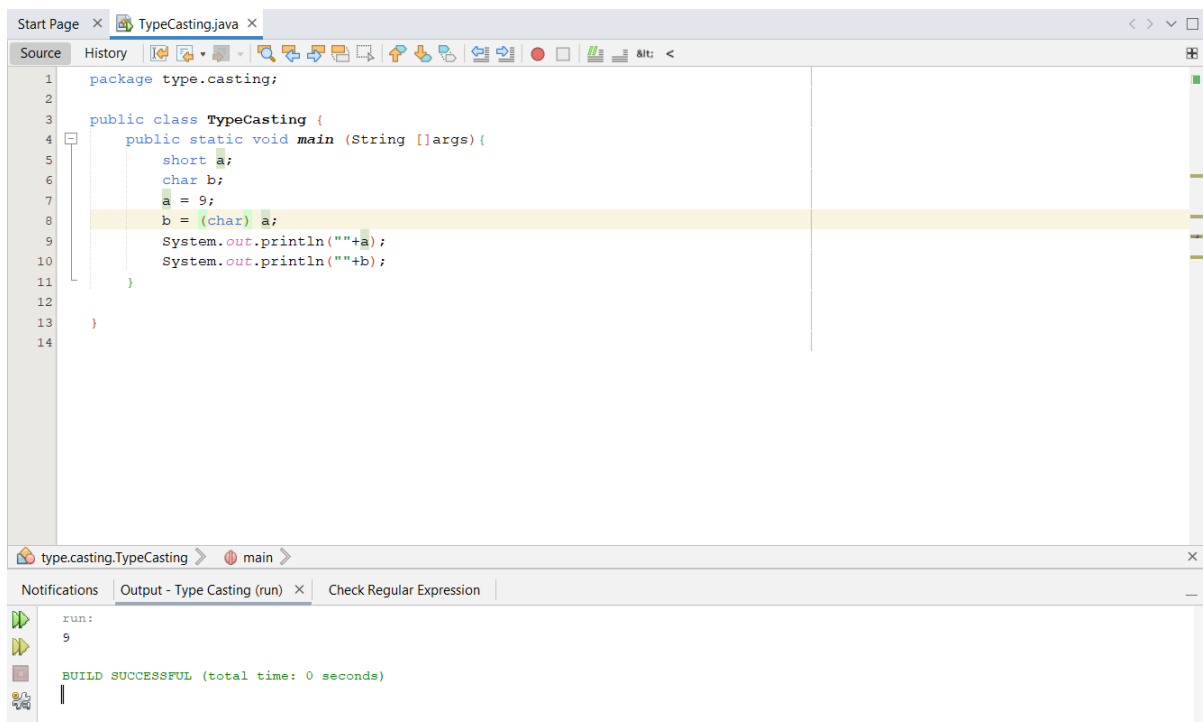
Implicit typecasting required

15.   byte to double

```java
package type.casting;

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

}
```

```
run:
10
10.0
BUILD SUCCESSFUL (total time: 0 seconds)
```

Implicit typecasting required

16.   byte to Boolean

```java
package type.casting;

public class TypeCasting {
    public static void main (String []args){
        byte a;
        boolean b;
        a = 1;
        b = (boolean) a;
        System.out.println(""+a);
        System.out.println(""+b);
    }

}
```

```
run:
Exception in thread "main" java.lang.RuntimeException: Uncompilable code - incompatible types: byte cannot be converted to boolean
        at type.casting.TypeCasting.main(TypeCasting.java:1)
C:\Users\Akash\AppData\Local\NetBeans\Cache\14\executor-snippets\run.xml:111: The following error occurred while executing this line:
C:\Users\Akash\AppData\Local\NetBeans\Cache\14\executor-snippets\run.xml:68: Java returned: 1
BUILD FAILED (total time: 1 second)
```

Typecasting cannot be done

17.   short to char
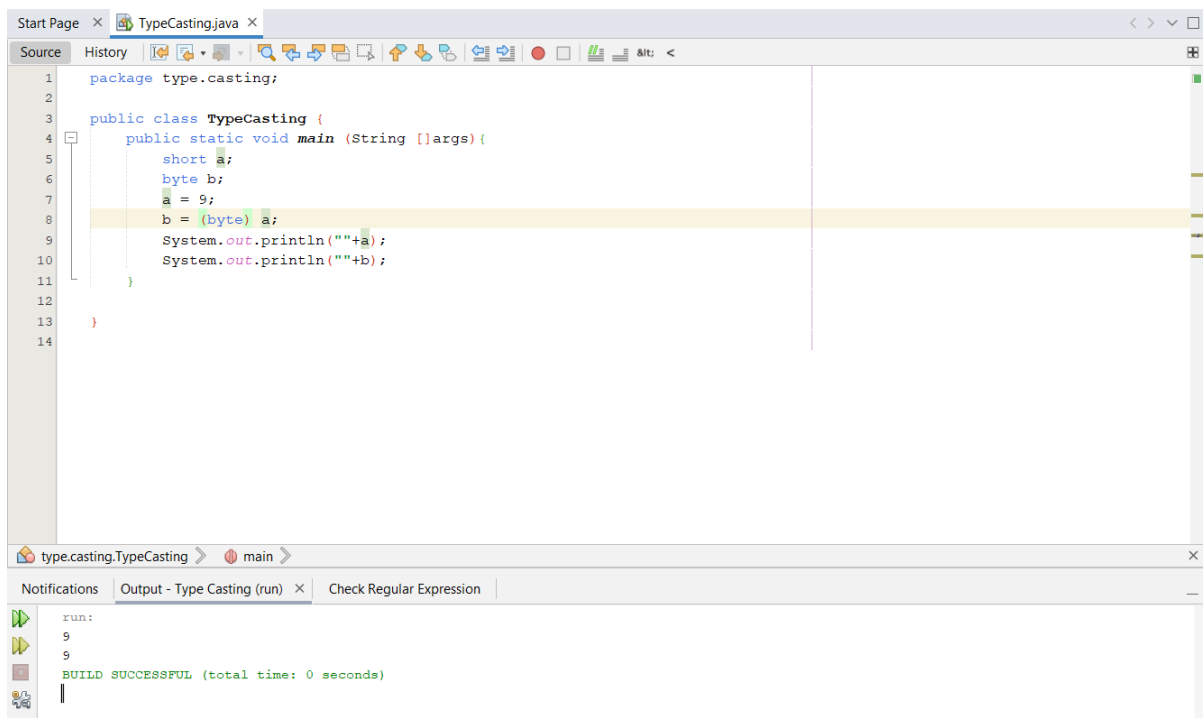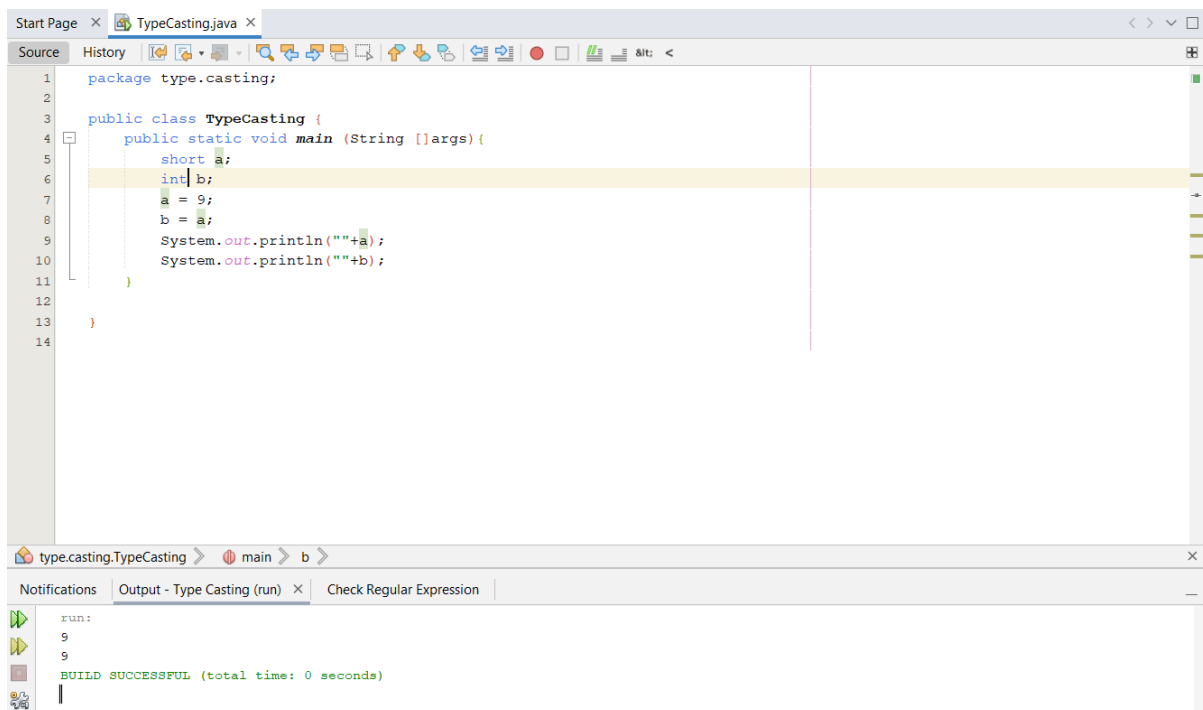
```
package type.casting;

public class TypeCasting {
    public static void main (String []args){
        short a;
        char b;
        a = 9;
        b = (char) a;
        System.out.println(""+a);
        System.out.println(""+b);
    }

}
```

Output - Type Casting (run)

```
run:
9

BUILD SUCCESSFUL (total time: 0 seconds)
```

Explicit typecasting required

18.   short to byte

```
package type.casting;

public class TypeCasting {
    public static void main (String []args){
        short a;
        byte b;
        a = 9;
        b = (byte) a;
        System.out.println(""+a);
        System.out.println(""+b);
    }

}
```

Output - Type Casting (run)

```
run:
9
9
BUILD SUCCESSFUL (total time: 0 seconds)
```
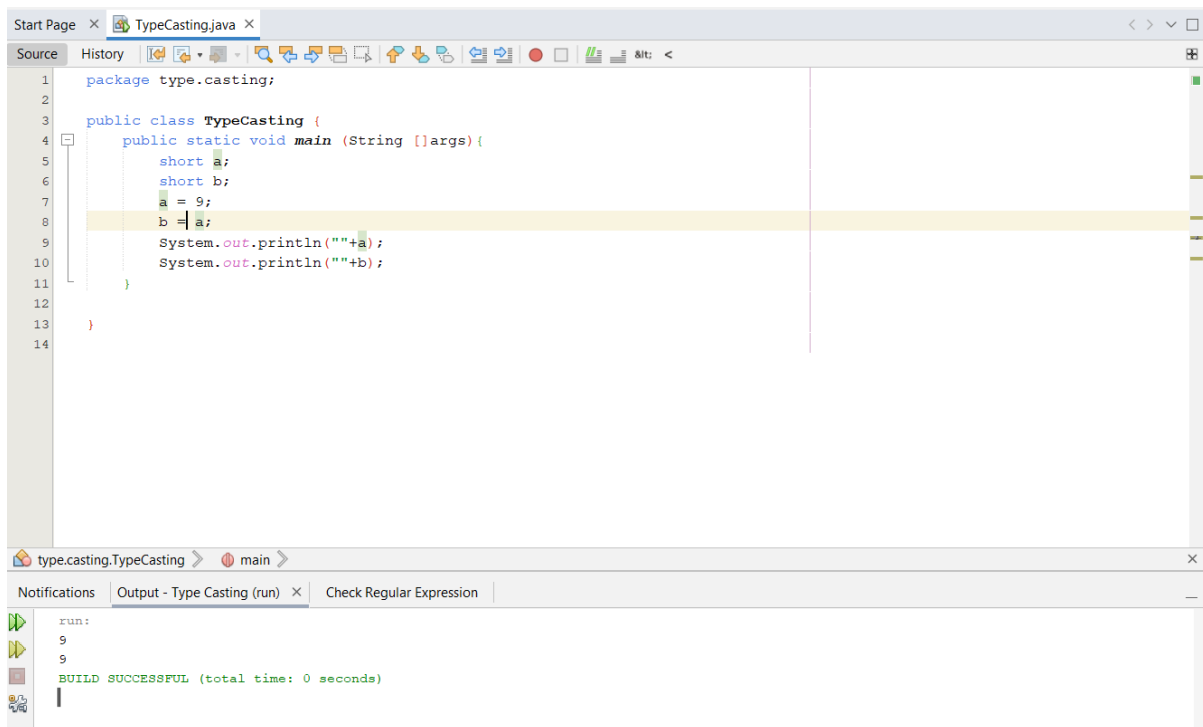
Explicit typecasting required

19.   short to short


```java
package type.casting;

public class TypeCasting {
    public static void main (String []args){
        short a;
        short b;
        a = 9;
        b = a;
        System.out.println(""+a);
        System.out.println(""+b);
    }

}
```

```
run:
9
9
BUILD SUCCESSFUL (total time: 0 seconds)
```

Typecasting not required

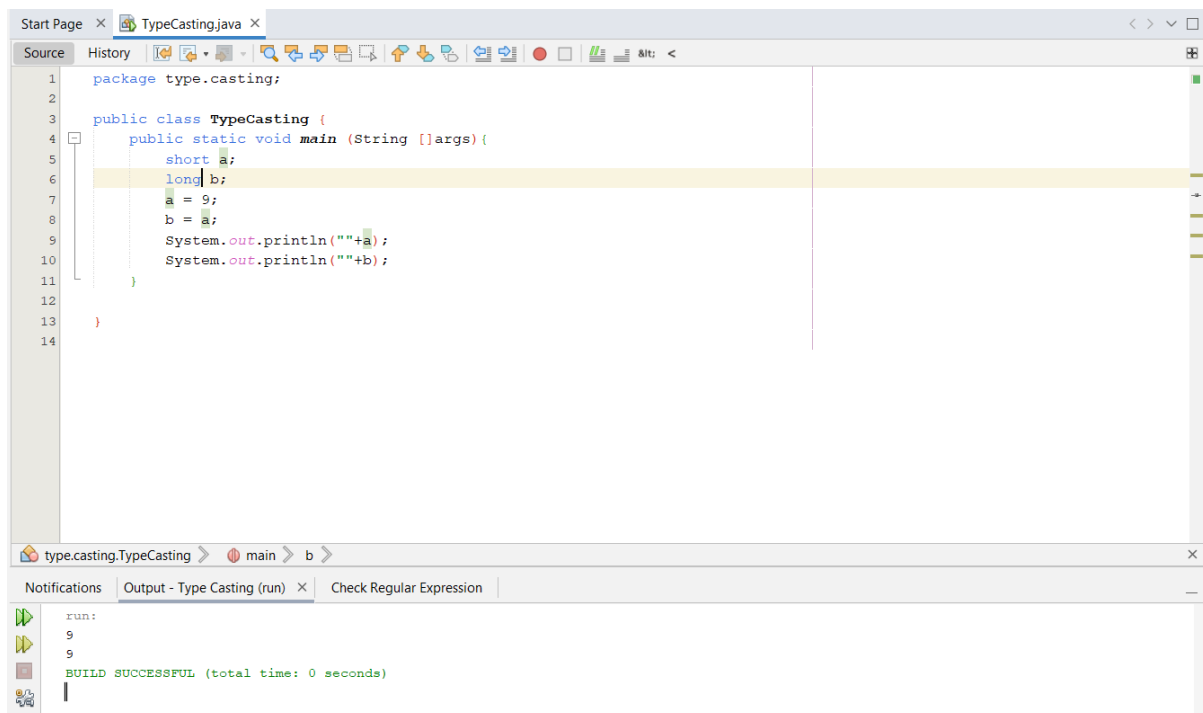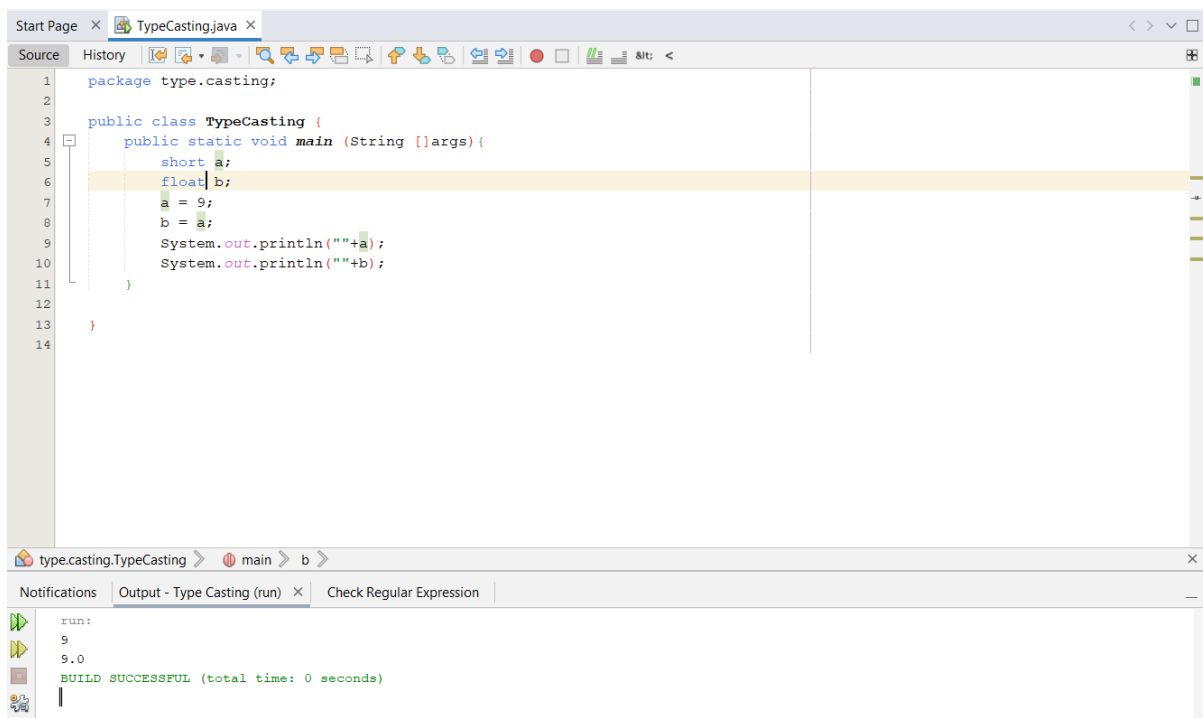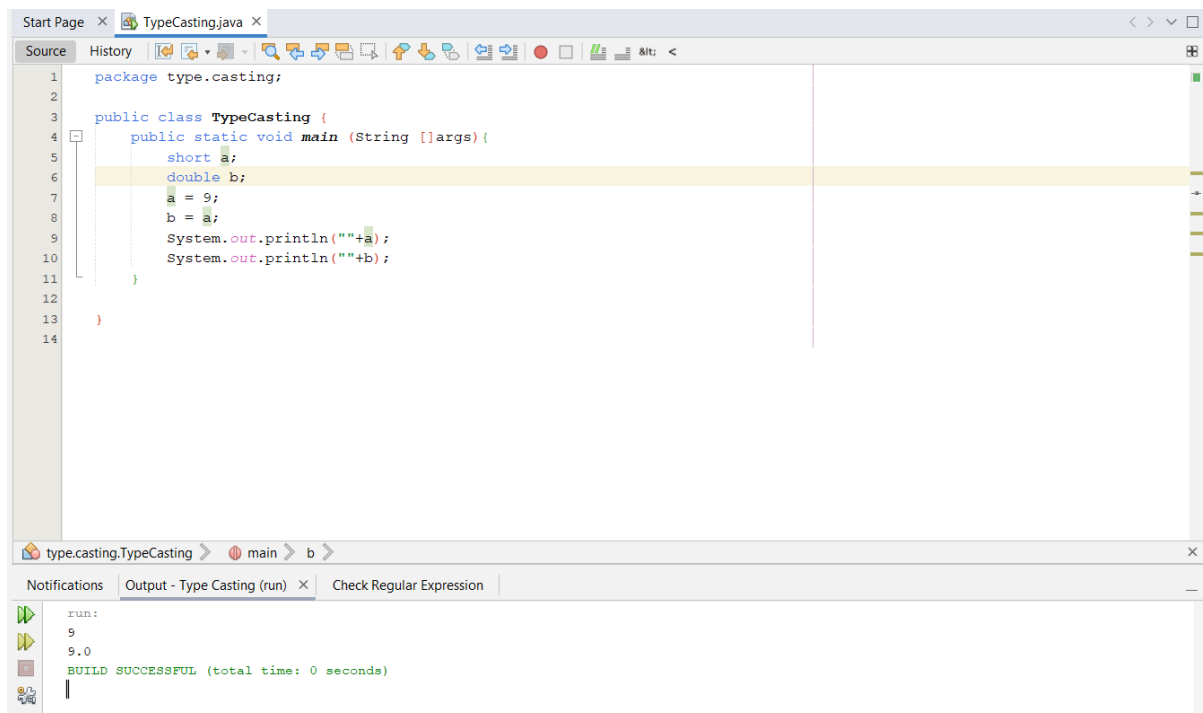## 20.   short to int


```java
package type.casting;

public class TypeCasting {
    public static void main (String []args){
        short a;
        int b;
        a = 9;
        b = a;
        System.out.println(""+a);
        System.out.println(""+b);
    }

}
```

```
run:
9
9
BUILD SUCCESSFUL (total time: 0 seconds)
```

Implicit typecasting required

21. short to long

```
package type.casting;

public class TypeCasting {
    public static void main (String []args){
        short a;
        long b;
        a = 9;
        b = a;
        System.out.println(""+a);
        System.out.println(""+b);
    }

}
```

```
run:
9
9
BUILD SUCCESSFUL (total time: 0 seconds)
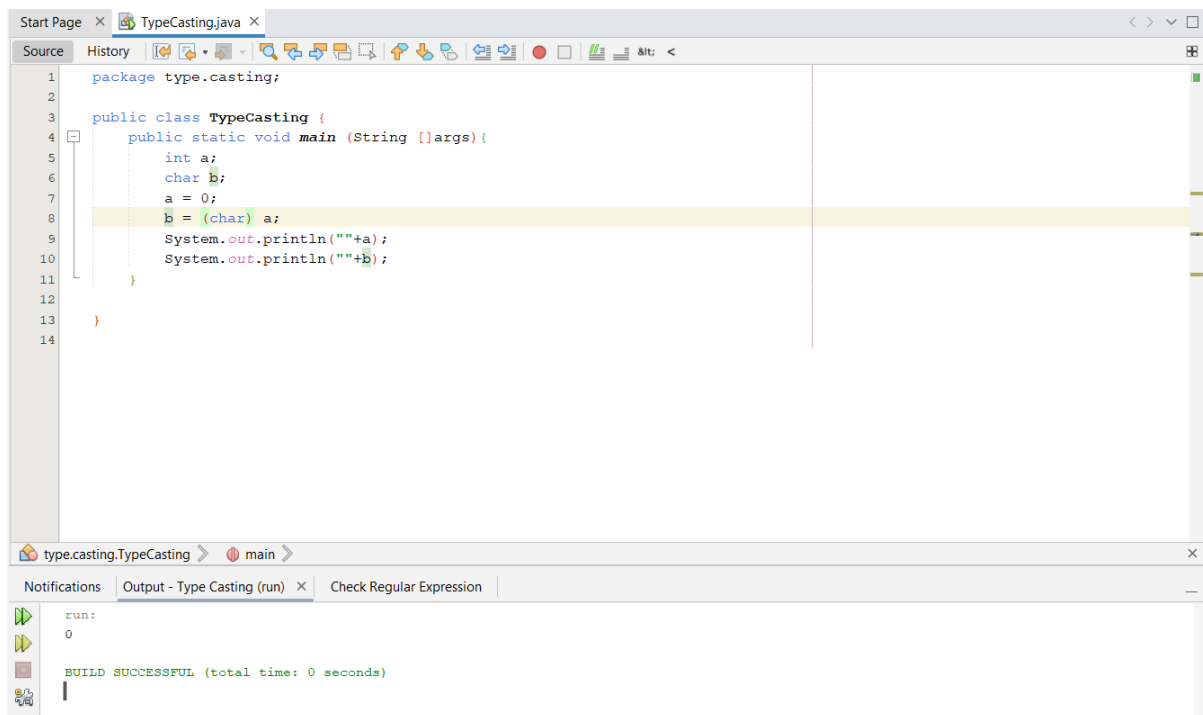```

**Implicit typecasting required**

## 22. short to float

```
package type.casting;

public class TypeCasting {
    public static void main (String []args){
        short a;
        float b;
        a = 9;
        b = a;
        System.out.println(""+a);
        System.out.println(""+b);
    }

}
```

```
run:
9
9.0
BUILD SUCCESSFUL (total time: 0 seconds)
```

Implicit typecasting required

23.   short to double


```
package type.casting;

public class TypeCasting {
    public static void main (String []args){
        short a;
        double b;
        a = 9;
        b = a;
        System.out.println(""+a);
        System.out.println(""+b);
    }

}
```

```
run:
9
9.0
BUILD SUCCESSFUL (total time: 0 seconds)
```

Implicit typecasting required

24.   short to boolean


```
package type.casting;

public class TypeCasting {
    public static void main (String []args){
        short a;
        boolean b;
        a = 0;
        b = (boolean) a;
        System.out.println(""+a);
        System.out.println(""+b);
    }

}
```

```
run:
Exception in thread "main" java.lang.RuntimeException: Uncompilable code - incompatible types: short cannot be converted to boolean
        at type.casting.TypeCasting.main(TypeCasting.java:1)
C:\Users\Akash\AppData\Local\NetBeans\Cache\14\executor-snippets\run.xml:111: The following error occurred while executing this line:
C:\Users\Akash\AppData\Local\NetBeans\Cache\14\executor-snippets\run.xml:68: Java returned: 1
BUILD FAILED (total time: 1 second)
```

Typecasting cannot be done
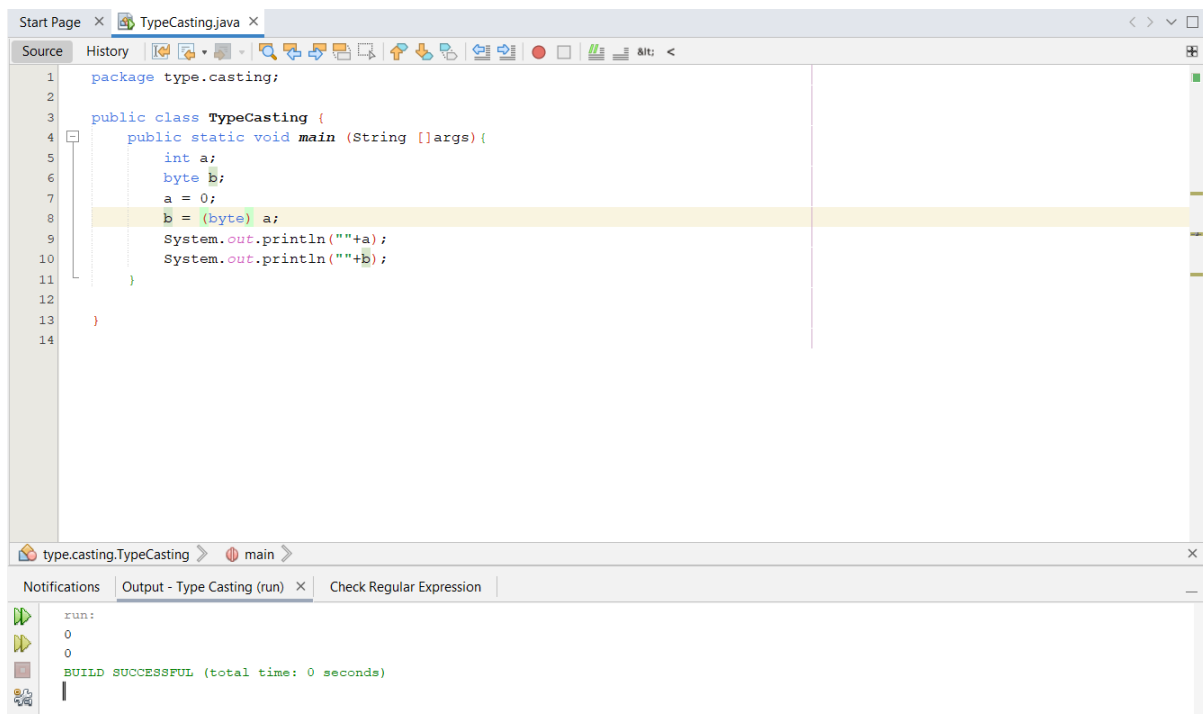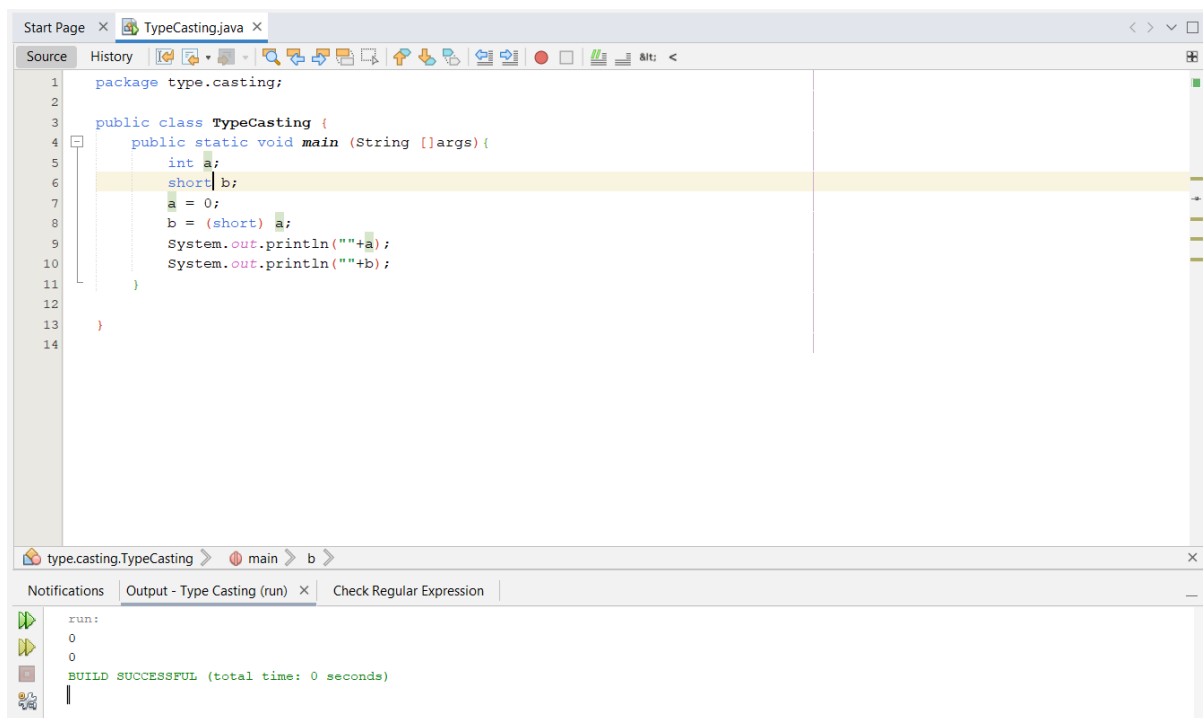
25.   int to char


```java
package type.casting;

public class TypeCasting {
    public static void main (String []args){
        int a;
        char b;
        a = 0;
        b = (char) a;
        System.out.println(""+a);
        System.out.println(""+b);
    }

}
```

```
run:
0

BUILD SUCCESSFUL (total time: 0 seconds)
```

Explicit typecasting required

26.   int to byte


```java
package type.casting;

public class TypeCasting {
    public static void main (String []args){
        int a;
        byte b;
        a = 0;
        b = (byte) a;
        System.out.println(""+a);
        System.out.println(""+b);
    }

}
```
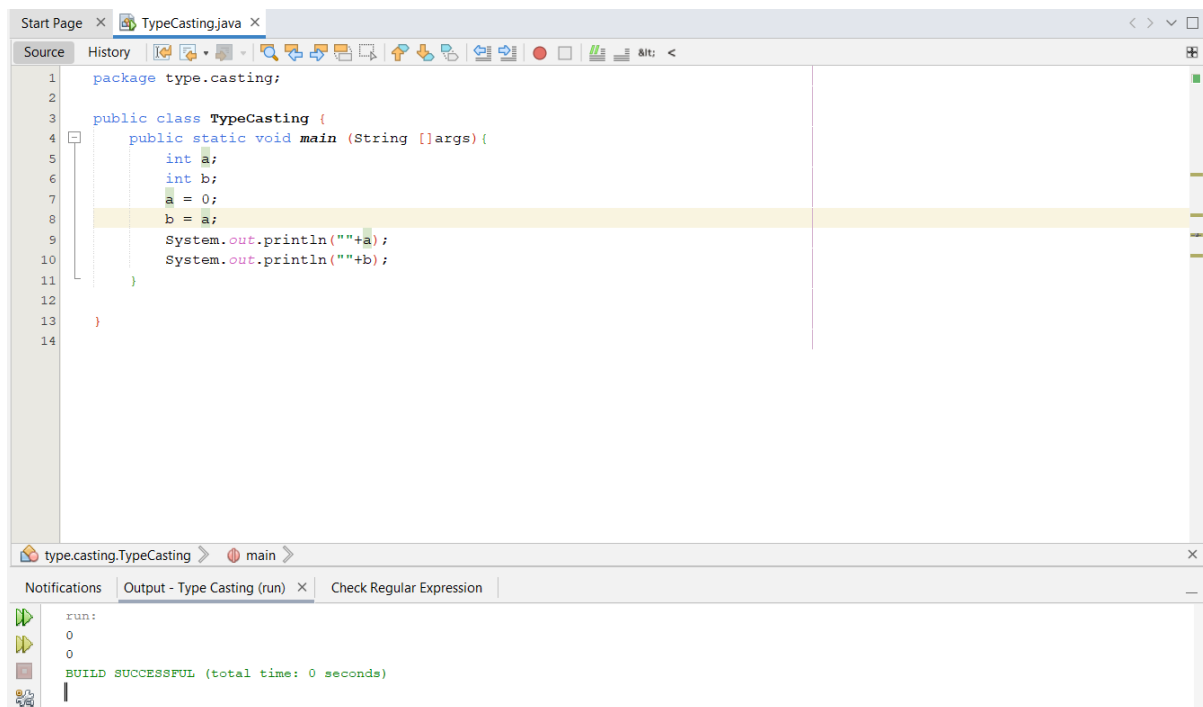
```
run:
0
0
BUILD SUCCESSFUL (total time: 0 seconds)
```

Explicit typecasting required

27.   int to short

```
package type.casting;

public class TypeCasting {
    public static void main (String []args){
        int a;
        short b;
        a = 0;
        b = (short) a;
        System.out.println(""+a);
        System.out.println(""+b);
    }

}
```

```
run:
0
0
BUILD SUCCESSFUL (total time: 0 seconds)
```

Explicit typecasting required

28.   int to int

```
package type.casting;

public class TypeCasting {
    public static void main (String []args){
        int a;
        int b;
        a = 0;
        b = a;
        System.out.println(""+a);
        System.out.println(""+b);
    }

}
```
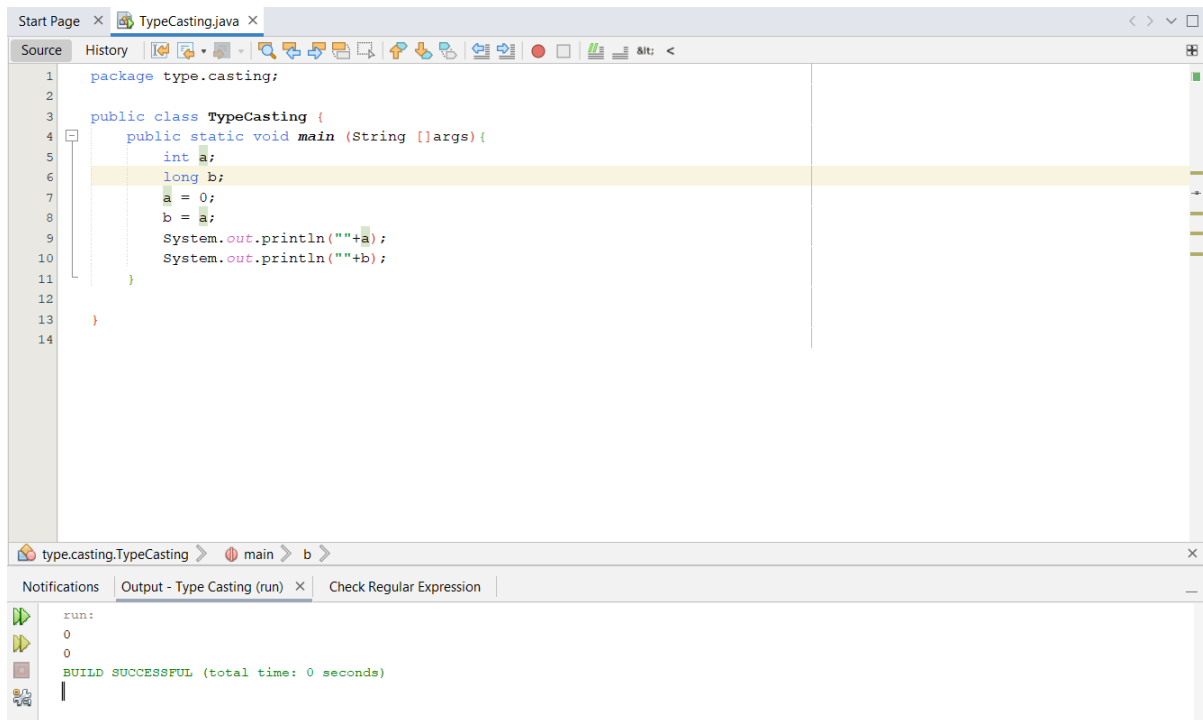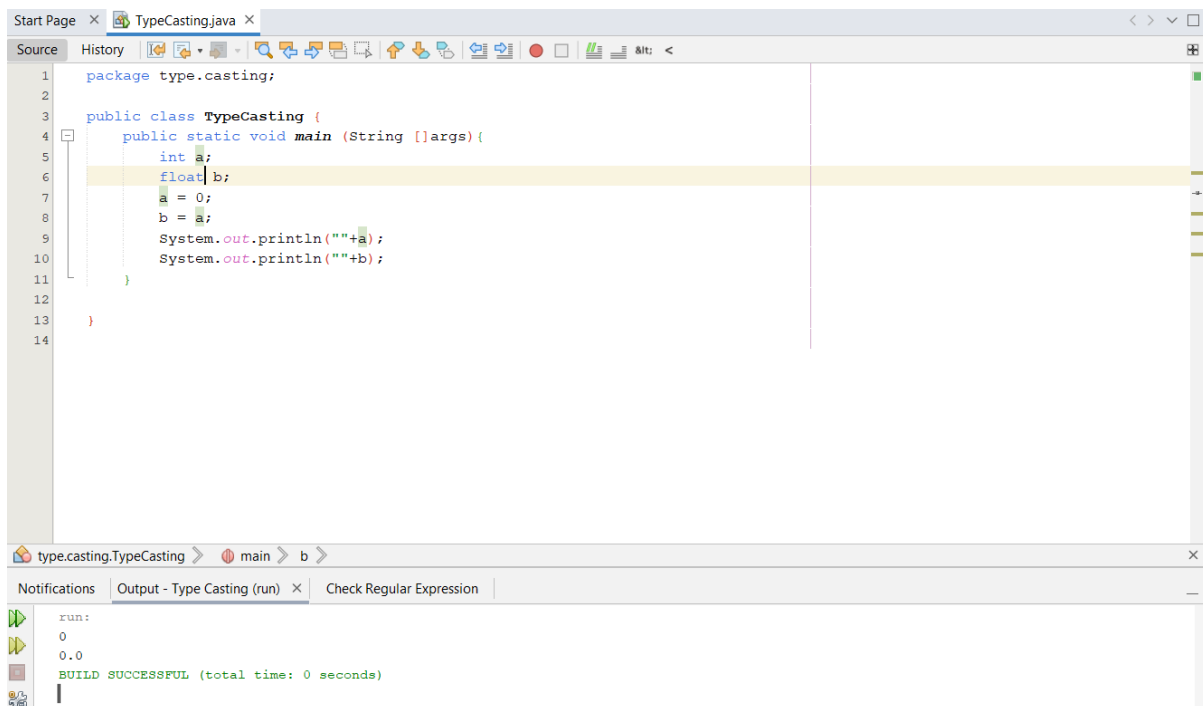
```
run:
0
0
BUILD SUCCESSFUL (total time: 0 seconds)
```

Typecasting not required

29. int to long


```
package type.casting;

public class TypeCasting {
    public static void main (String []args){
        int a;
        long b;
        a = 0;
        b = a;
        System.out.println(""+a);
        System.out.println(""+b);
    }

}
```

```
run:
0
0
BUILD SUCCESSFUL (total time: 0 seconds)
```

Implicit typecasting required

30. int to float


```
package type.casting;

public class TypeCasting {
    public static void main (String []args){
        int a;
        float b;
        a = 0;
        b = a;
        System.out.println(""+a);
        System.out.println(""+b);
    }

}
```
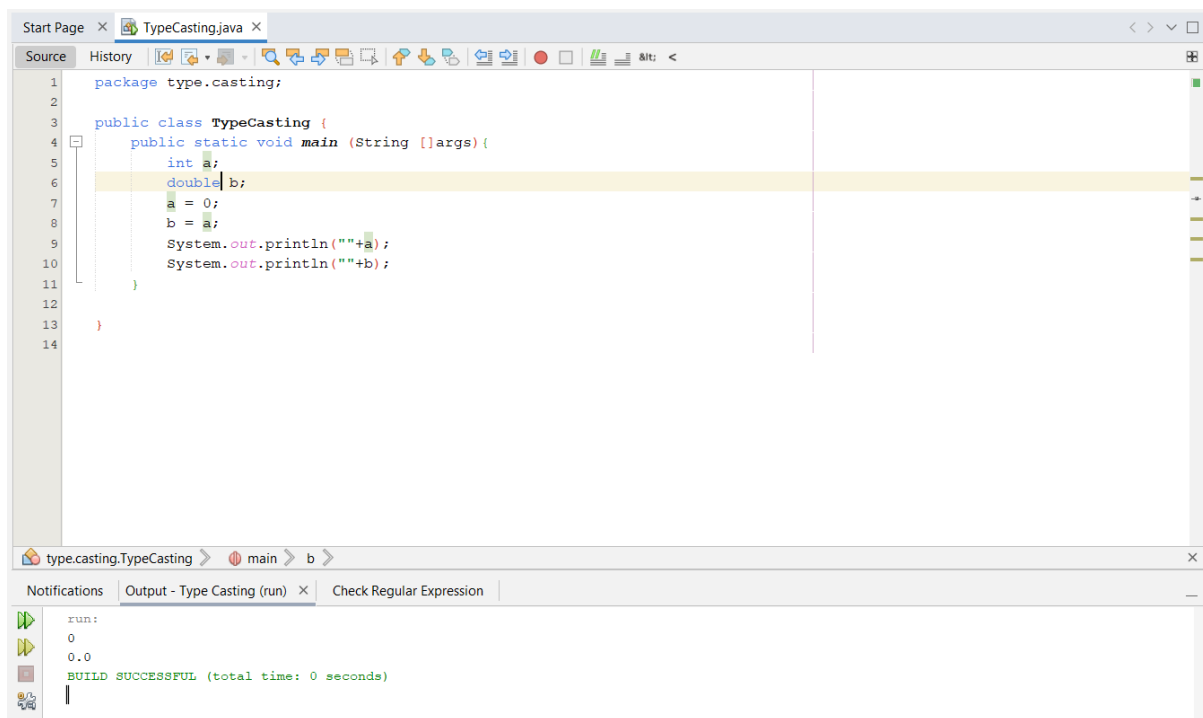
```
run:
0
0.0
BUILD SUCCESSFUL (total time: 0 seconds)
```

Implicit typecasting required

31.   int to double

Implicit typecasting required
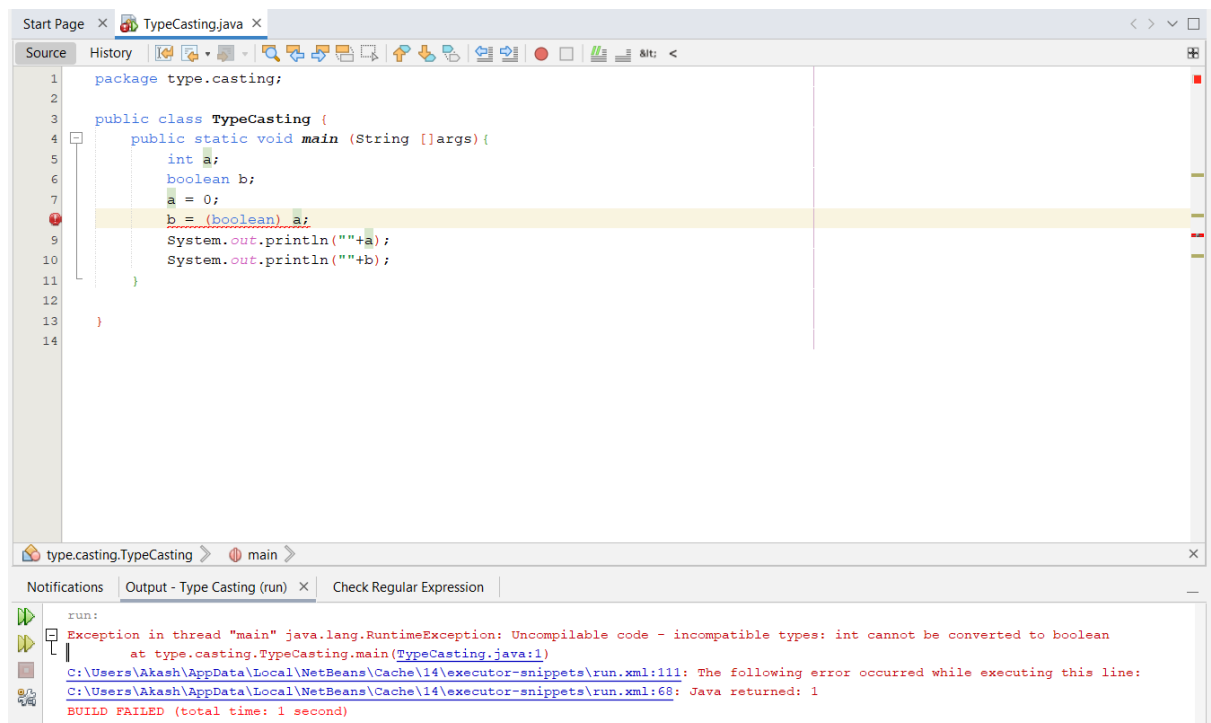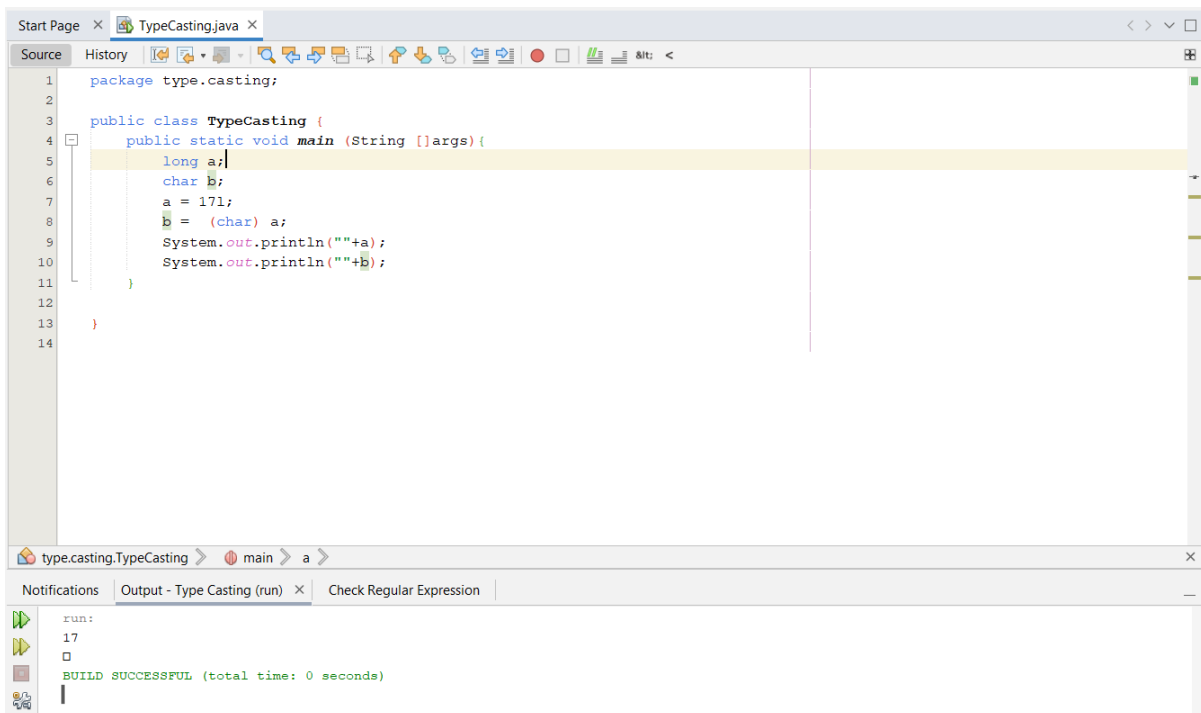
32.   int to boolean

Typecasting cannot be done

33.   long to char

```
package type.casting;

public class TypeCasting {
    public static void main (String []args){
        long a;
        char b;
        a = 17l;
        b =  (char) a;
        System.out.println(""+a);
        System.out.println(""+b);
    }

}
```

```
run:
17
□
BUILD SUCCESSFUL (total time: 0 seconds)
```

Explicit typecasting required

34.   long to byte

```
package type.casting;

public class TypeCasting {
    public static void main (String []args){
        long a;
        byte b;
        a = 17l;
        b =  (byte) a;
        System.out.println(""+a);
        System.out.println(""+b);
    }

}
```

```
run:
17
17
BUILD SUCCESSFUL (total time: 0 seconds)
```

Explicit typecasting required

35.   long to short

```
package type.casting;

public class TypeCasting {
    public static void main (String []args){
        long a;
        short b;
        a = 17l;
        b =  (short) a;
        System.out.println(""+a);
        System.out.println(""+b);
    }

}
```

```
run:
17
17
BUILD SUCCESSFUL (total time: 0 seconds)
```

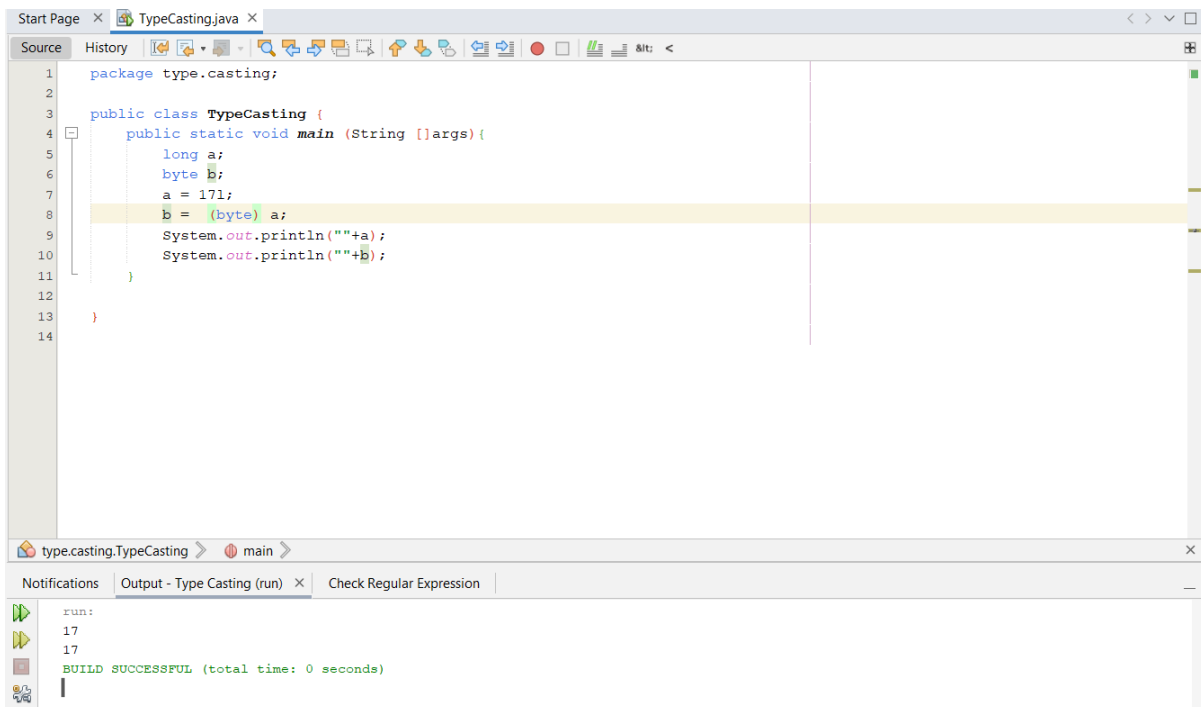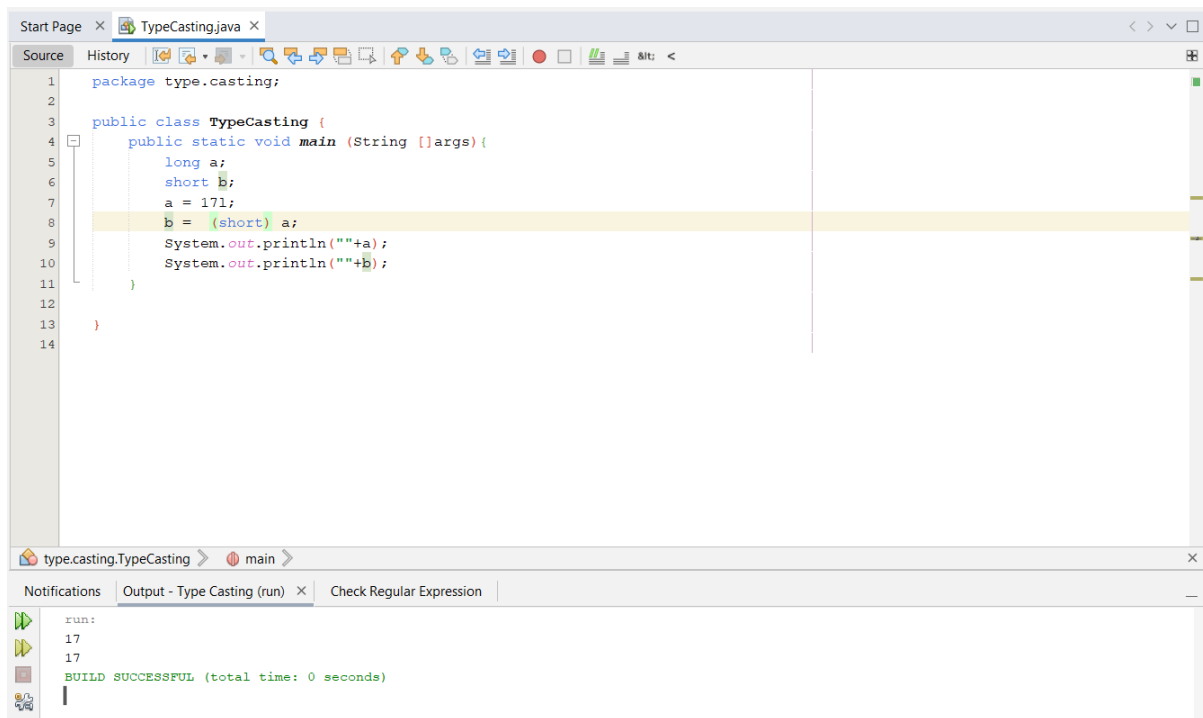### Explicit typecasting required

36.   long to int

```
package type.casting;

public class TypeCasting {
    public static void main (String []args){
        long a;
        int b;
        a = 17l;
        b = (int) a;
        System.out.println(""+a);
        System.out.println(""+b);
    }

}
```

```
run:
17
17
BUILD SUCCESSFUL (total time: 0 seconds)
```

Explicit typecasting required

37.   long to long
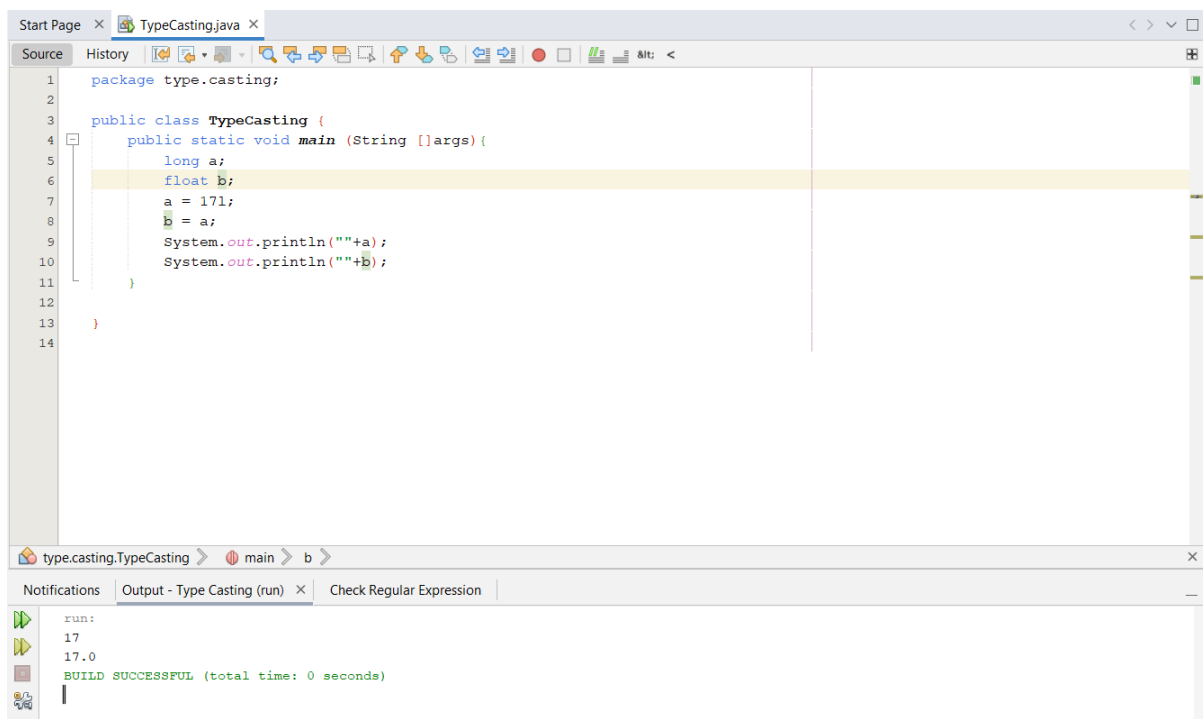

```java
package type.casting;

public class TypeCasting {
    public static void main (String []args){
        long a;
        long b;
        a = 17l;
        b = a;
        System.out.println(""+a);
        System.out.println(""+b);
    }
}
```

```
run:
17
17
BUILD SUCCESSFUL (total time: 0 seconds)
```

Typecasting not required

38.   long to float


```java
package type.casting;

public class TypeCasting {
    public static void main (String []args){
        long a;
        float b;
        a = 17l;
        b = a;
        System.out.println(""+a);
        System.out.println(""+b);
    }
}
```
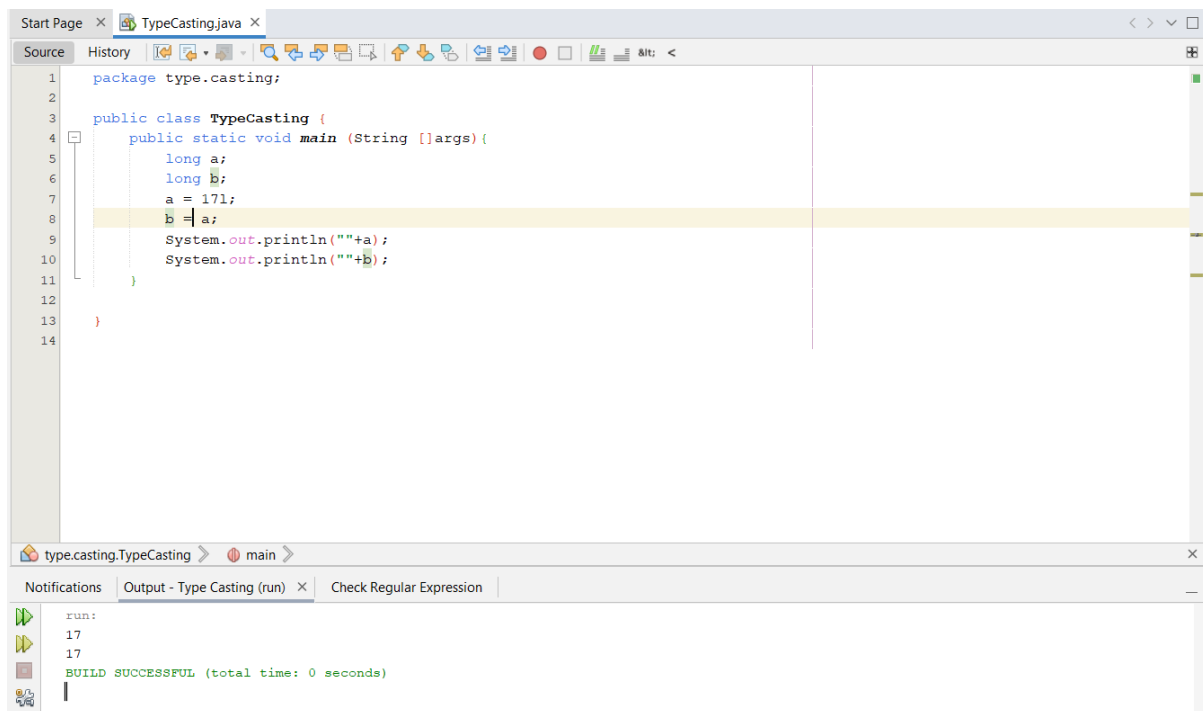
```
run:
17
17.0
BUILD SUCCESSFUL (total time: 0 seconds)
```

Implicit typecasting required

39.   long to double

Implicit typecasting required

40.   long to boolean

Typecasting cannot be done

41. float to char


```java
package type.casting;

public class TypeCasting {
    public static void main (String []args){
        float a;
        char b;
        a = 12f;
        b = (char) a;
        System.out.println(""+a);
        System.out.println(""+b);
    }

}
```

```
run:
12.0

BUILD SUCCESSFUL (total time: 0 seconds)
```

Explicit typecasting required

42. float to byte


```java
package type.casting;

public class TypeCasting {
    public static void main (String []args){
        float a;
        byte b;
        a = 12f;
        b = (byte) a;
        System.out.println(""+a);
        System.out.println(""+b);
    }

}
```

```
run:
12.0
12
BUILD SUCCESSFUL (total time: 0 seconds)
```

Explicit typecasting required
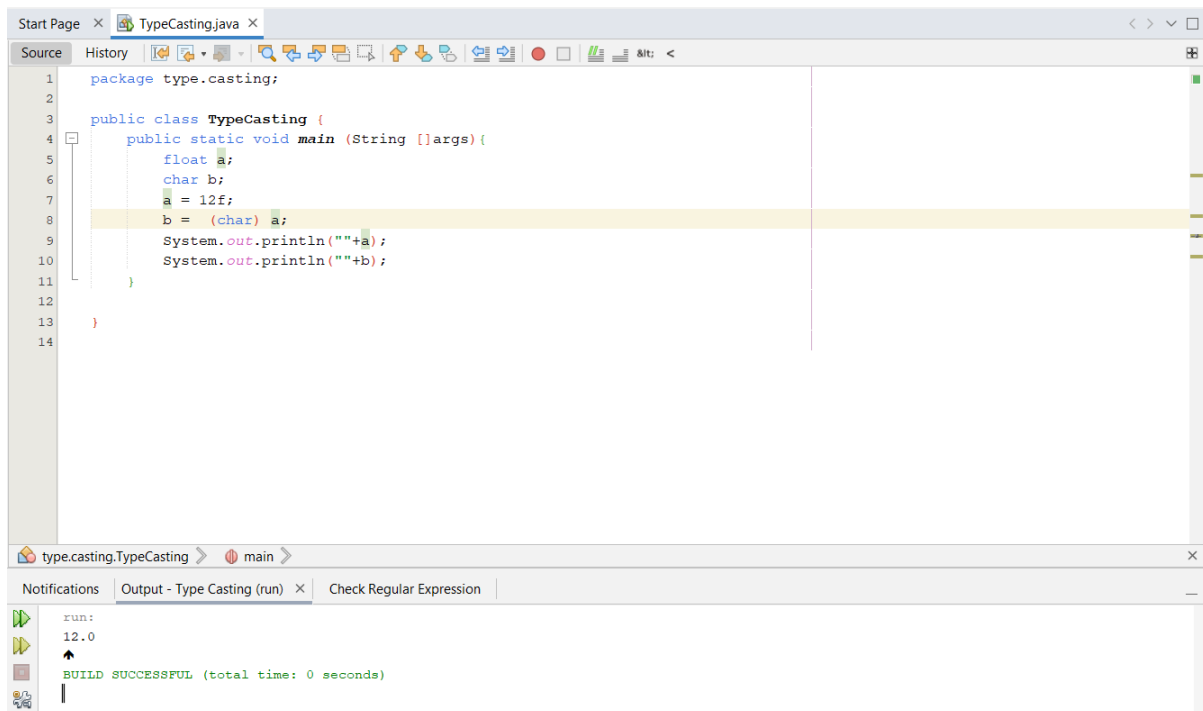
43. float to short

```
package type.casting;

public class TypeCasting {
    public static void main (String []args){
        float a;
        short b;
        a = 12f;
        b =  (short) a;
        System.out.println(""+a);
        System.out.println(""+b);
    }

}
```

```
run:
12.0
12
BUILD SUCCESSFUL (total time: 0 seconds)
```

Explicit typecasting required

44. float to int

```
package type.casting;

public class TypeCasting {
    public static void main (String []args){
        float a;
        int b;
        a = 12f;
        b =  (int) a;
        System.out.println(""+a);
        System.out.println(""+b);
    }

}
```

```
run:
12.0
12
BUILD SUCCESSFUL (total time: 0 seconds)
```

Explicit typecasting required
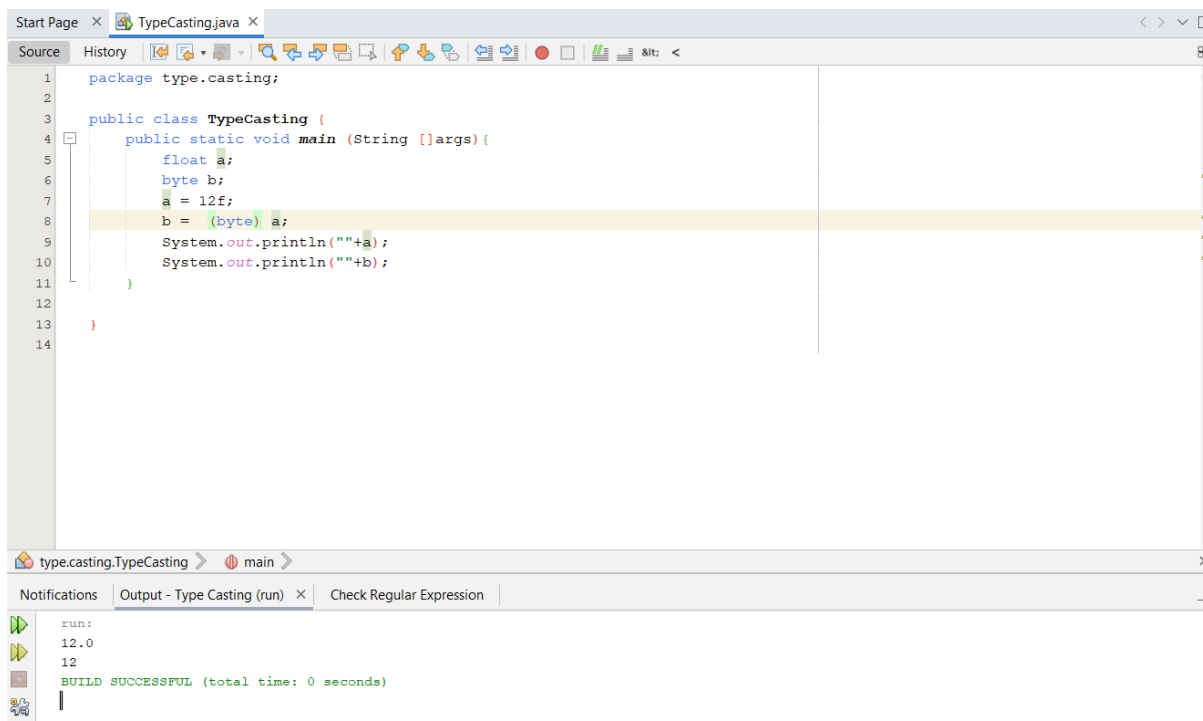
45.   float to long

```
package type.casting;

public class TypeCasting {
    public static void main (String []args){
        float a;
        long b;
        a = 12f;
        b = (long) a;
        System.out.println(""+a);
        System.out.println(""+b);
    }

}
```

```
run:
12.0
12
BUILD SUCCESSFUL (total time: 0 seconds)
```

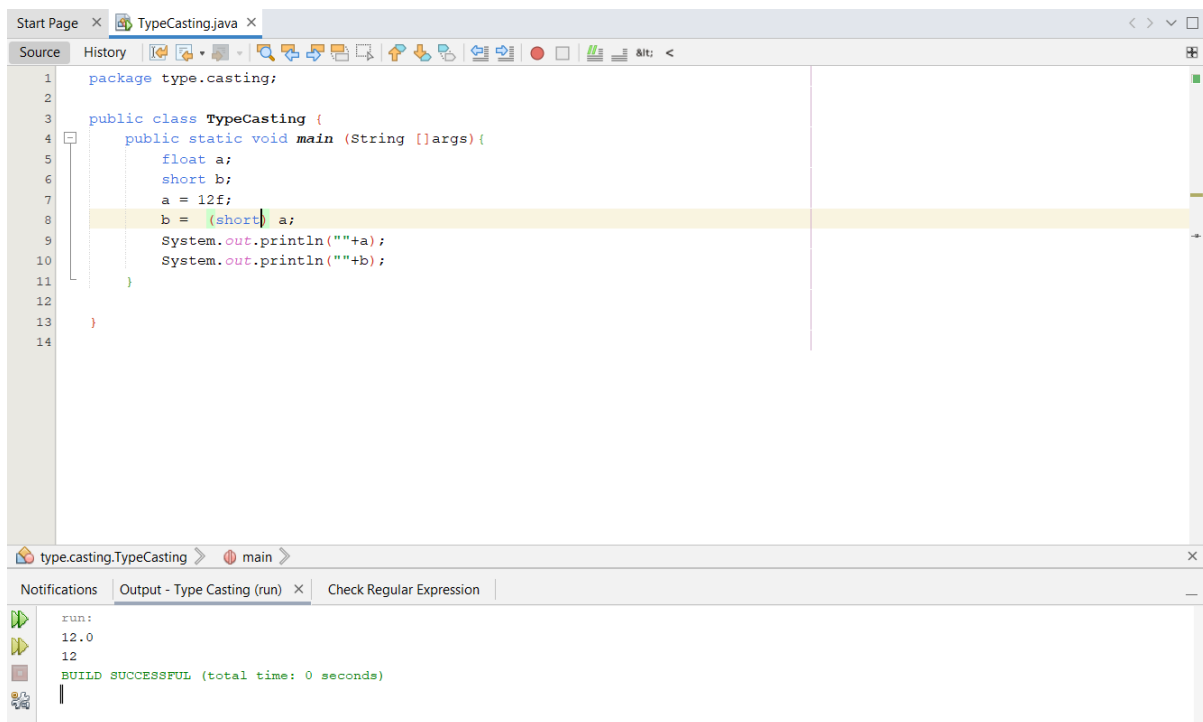### Explicit typecasting required

46.   float to float

```
package type.casting;

public class TypeCasting {
    public static void main (String []args){
        float a;
        float b;
        a = 12f;
        b = a;
        System.out.println(""+a);
        System.out.println(""+b);
    }

}
```

```
run:
12.0
12.0
BUILD SUCCESSFUL (total time: 0 seconds)
```
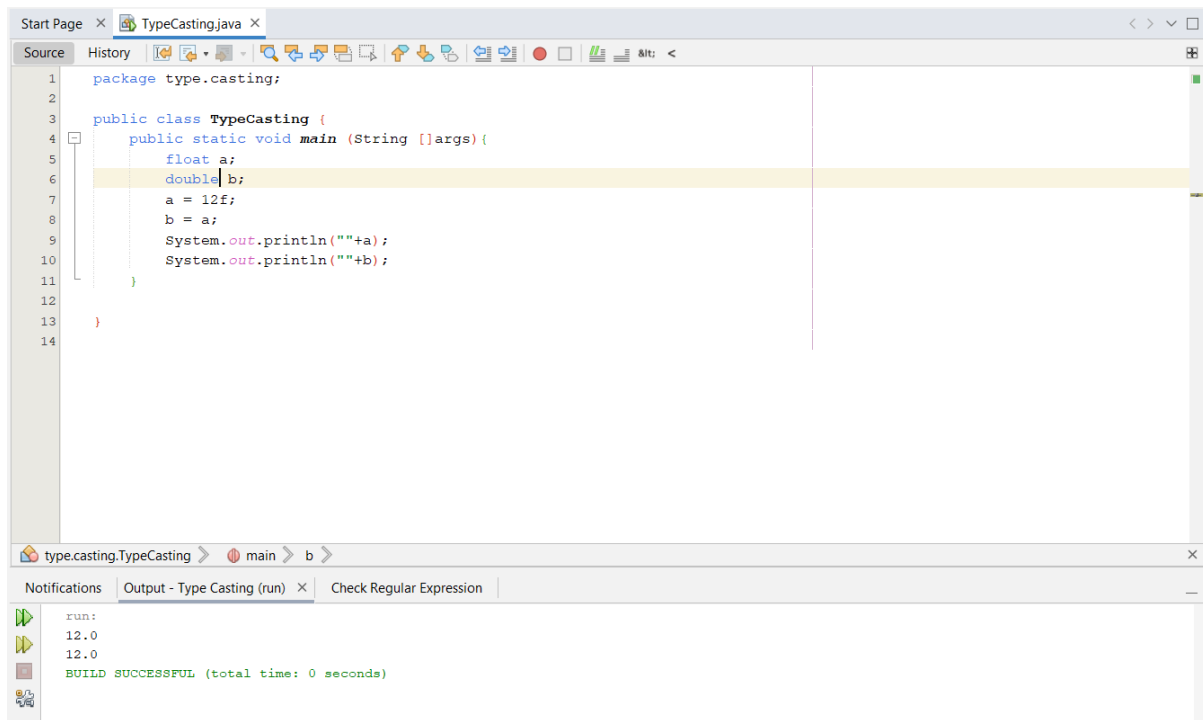
Implicit typecasting required
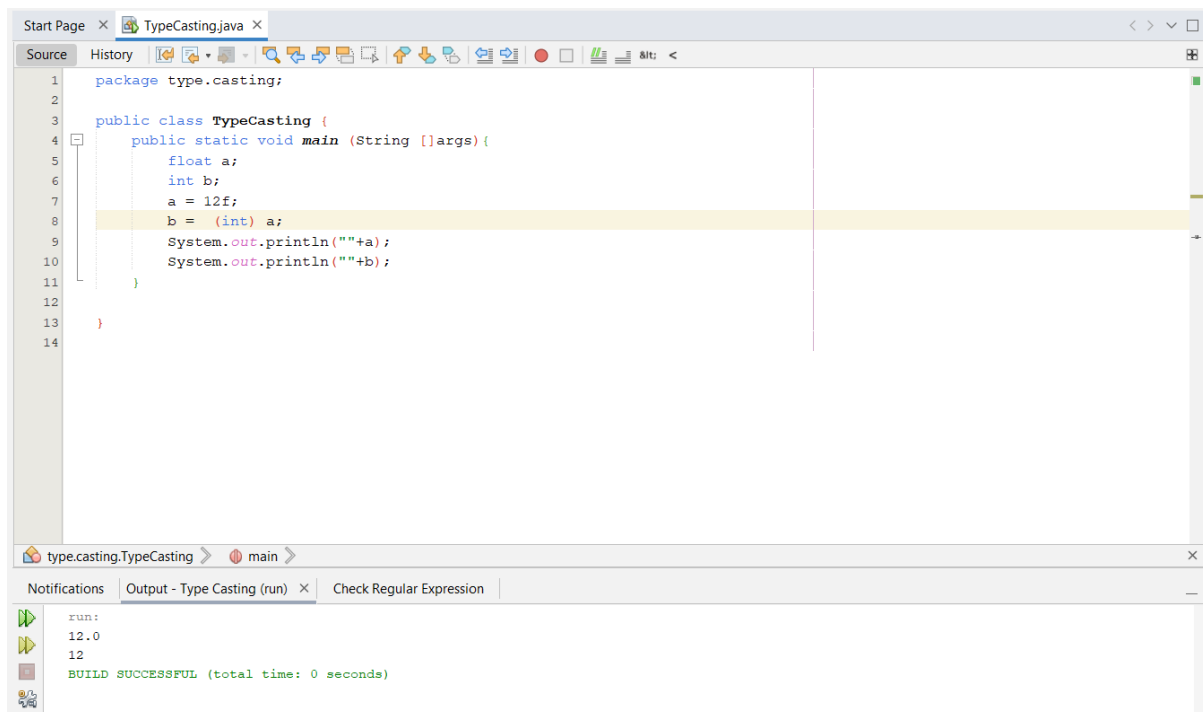
47.   float to double


```java
package type.casting;

public class TypeCasting {
    public static void main (String []args){
        float a;
        double b;
        a = 12f;
        b = a;
        System.out.println(""+a);
        System.out.println(""+b);
    }

}
```

```
run:
12.0
12.0
BUILD SUCCESSFUL (total time: 0 seconds)
```
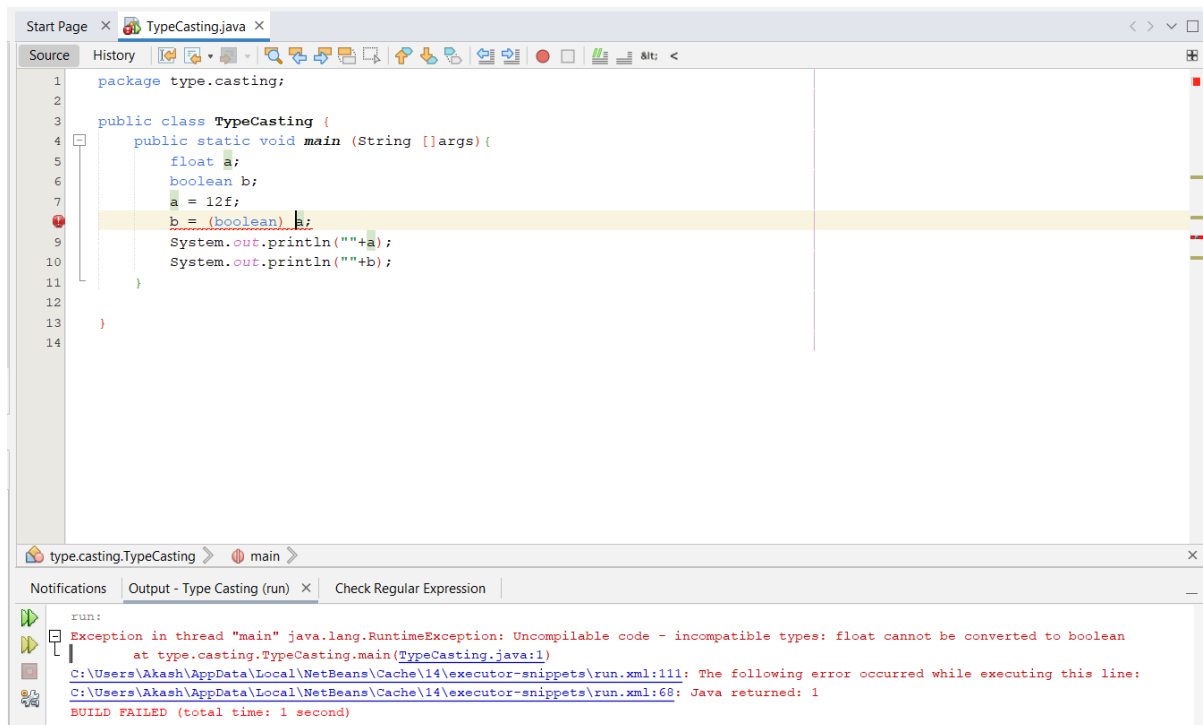
Implicit typecasting required

48.   float to boolean


```java
package type.casting;

public class TypeCasting {
    public static void main (String []args){
        float a;
        boolean b;
        a = 12f;
        b = (boolean) a;
        System.out.println(""+a);
        System.out.println(""+b);
    }

}
```
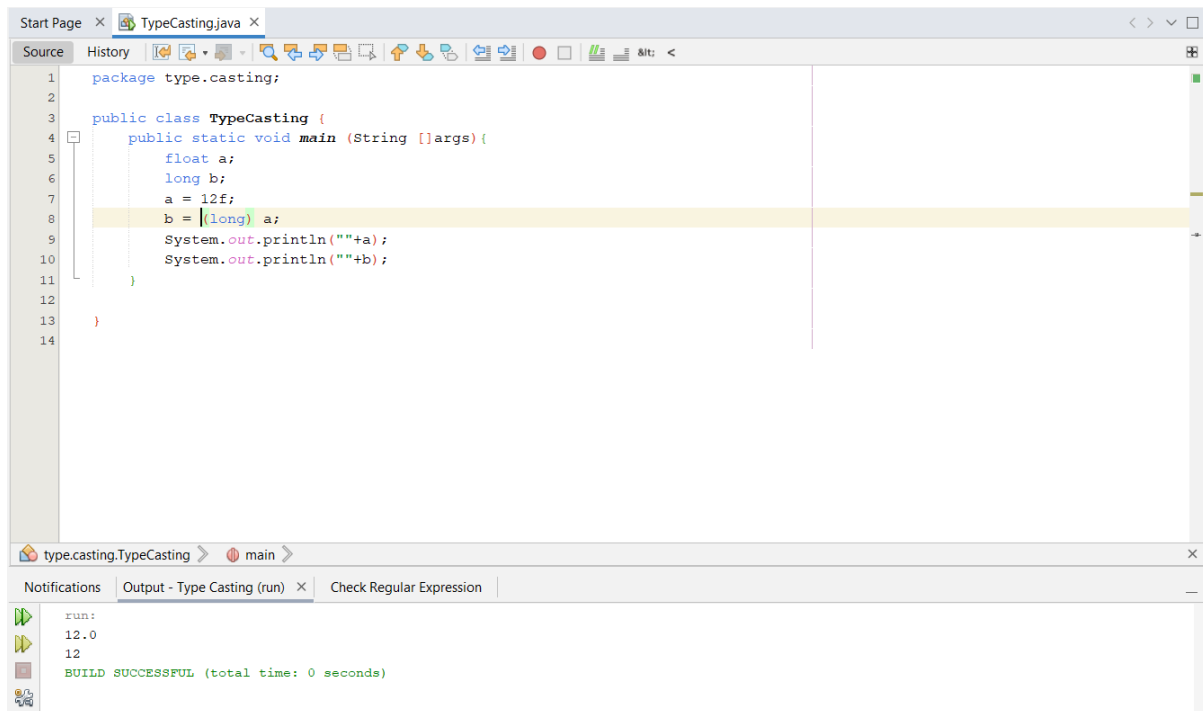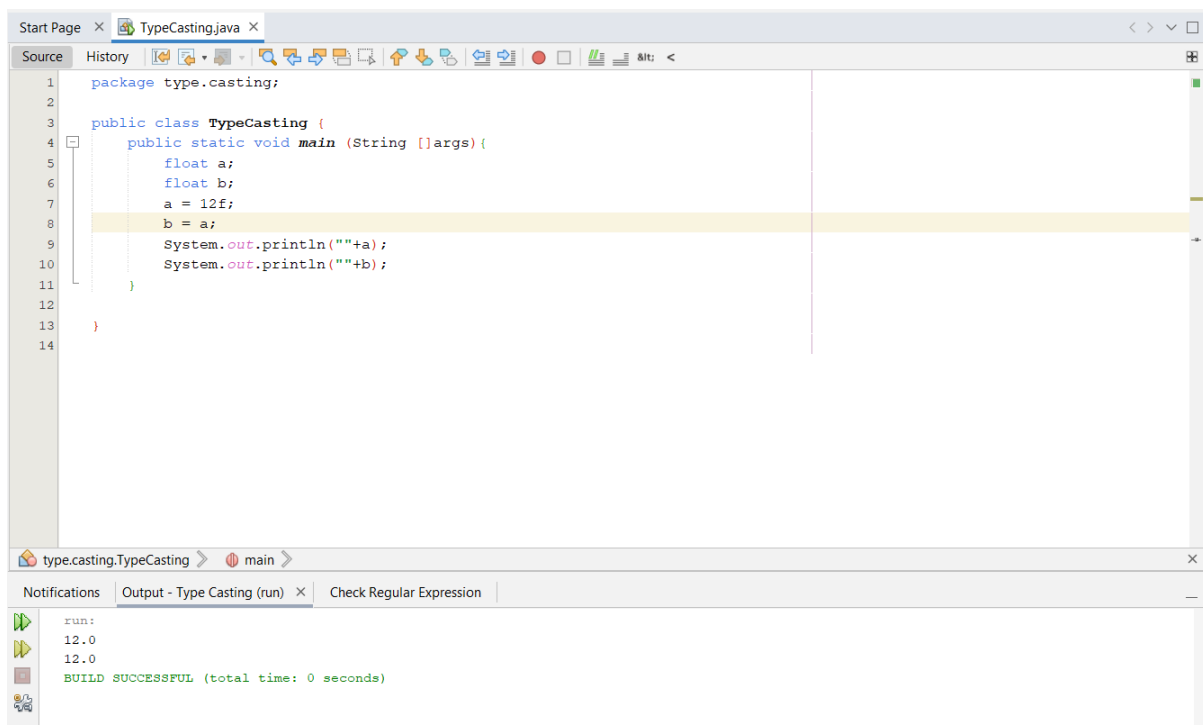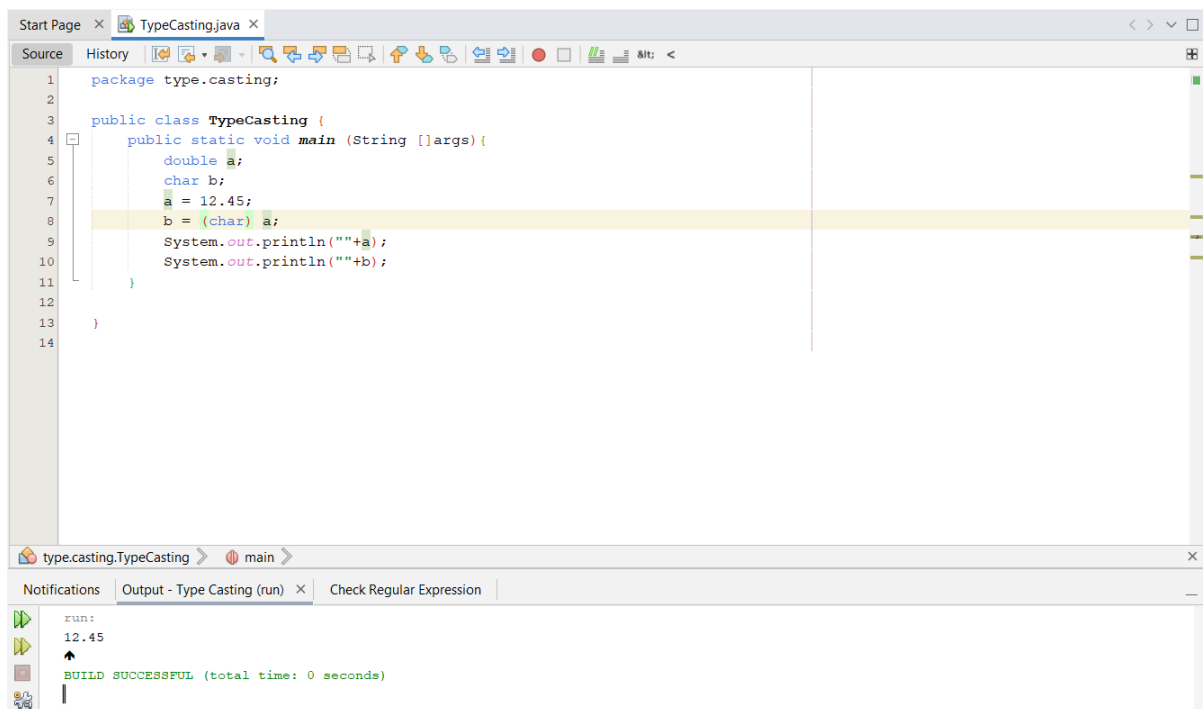
```
run:
Exception in thread "main" java.lang.RuntimeException: Uncompilable code - incompatible types: float cannot be converted to boolean
        at type.casting.TypeCasting.main(TypeCasting.java:1)
C:\Users\Akash\AppData\Local\NetBeans\Cache\14\executor-snippets\run.xml:111: The following error occurred while executing this line:
C:\Users\Akash\AppData\Local\NetBeans\Cache\14\executor-snippets\run.xml:68: Java returned: 1
BUILD FAILED (total time: 1 second)
```

Typecasting cannot be done

49.   double to char

```java
package type.casting;

public class TypeCasting {
    public static void main (String []args){
        double a;
        char b;
        a = 12.45;
        b = (char) a;
        System.out.println(""+a);
        System.out.println(""+b);
    }

}
```
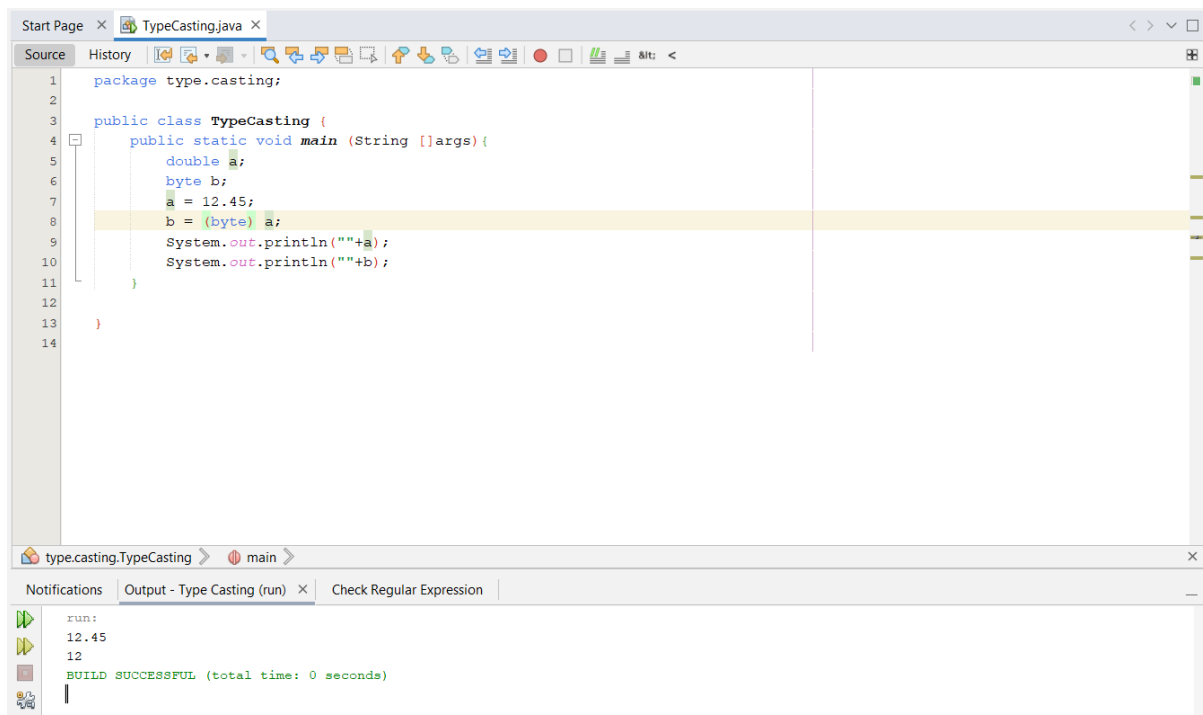
```
run:
12.45

BUILD SUCCESSFUL (total time: 0 seconds)
```

<u>Explicit typecasting required</u>

50.   double to byte

```java
package type.casting;

public class TypeCasting {
    public static void main (String []args){
        double a;
        byte b;
        a = 12.45;
        b = (byte) a;
        System.out.println(""+a);
        System.out.println(""+b);
    }

}
```

```
run:
12.45
12
BUILD SUCCESSFUL (total time: 0 seconds)
```

<u>Explicit typecasting required</u>

51.   double to short


```
package type.casting;

public class TypeCasting {
    public static void main (String []args){
        double a;
        short b;
        a = 12.45;
        b = (short) a;
        System.out.println(""+a);
        System.out.println(""+b);
    }

}
```

```
run:
12.45
12
BUILD SUCCESSFUL (total time: 0 seconds)
```

Explicit typecasting required

52.   double to int


```
package type.casting;

public class TypeCasting {
    public static void main (String []args){
        double a;
        int b;
        a = 12.45;
        b = (int) a;
        System.out.println(""+a);
        System.out.println(""+b);
    }

}
```

```
run:
12.0
12
BUILD SUCCESSFUL (total time: 0 seconds)
```

Explicit typecasting required

53. double to long


```java
package type.casting;

public class TypeCasting {
    public static void main (String []args){
        double a;
        long b;
        a = 12.45;
        b = (long) a;
        System.out.println(""+a);
        System.out.println(""+b);
    }

}
```

```
run:
12.45
12
BUILD SUCCESSFUL (total time: 0 seconds)
```

Explicit typecasting required

54. double to float


```java
package type.casting;

public class TypeCasting {
    public static void main (String []args){
        double a;
        float b;
        a = 12.45;
        b = (float) a;
        System.out.println(""+a);
        System.out.println(""+b);
    }

}
```
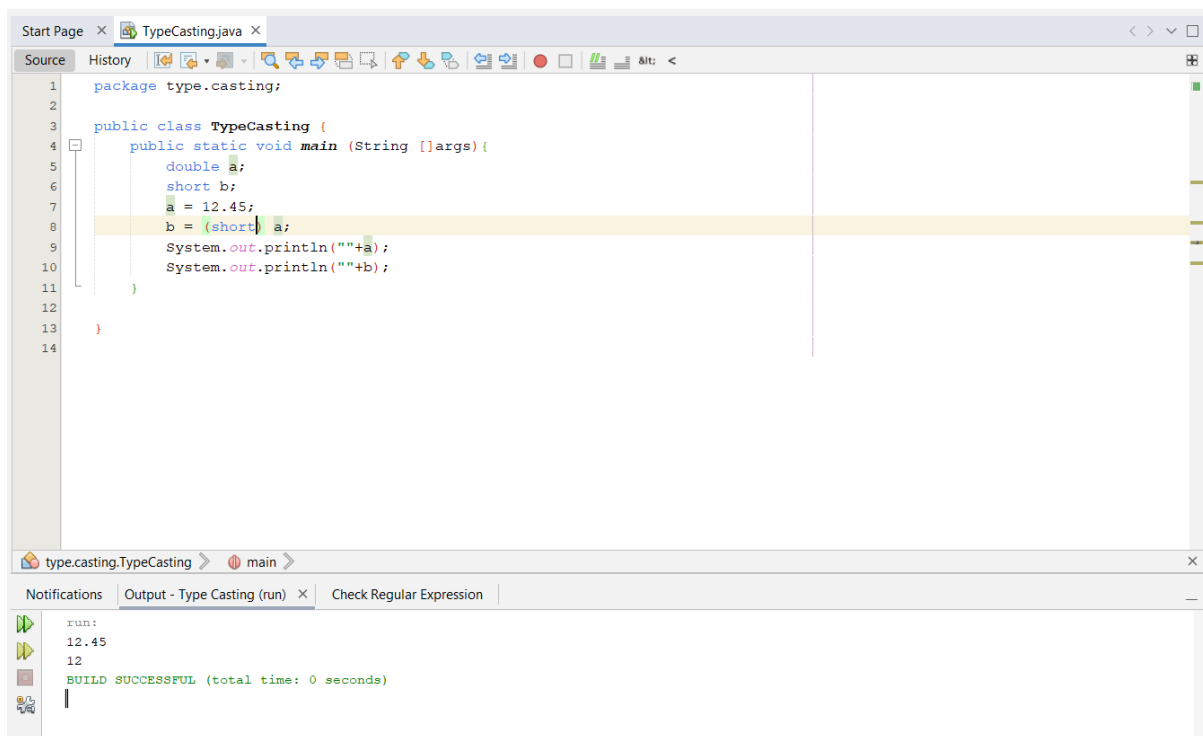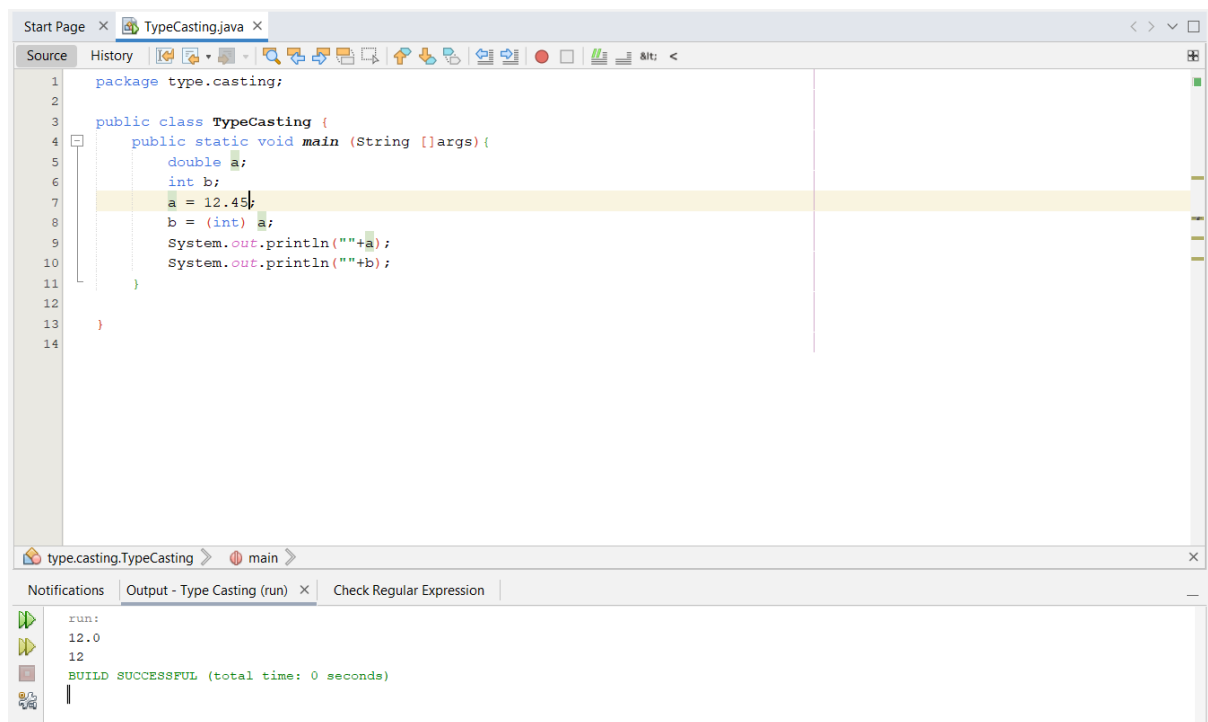
```
run:
12.45
12.45
BUILD SUCCESSFUL (total time: 0 seconds)
```

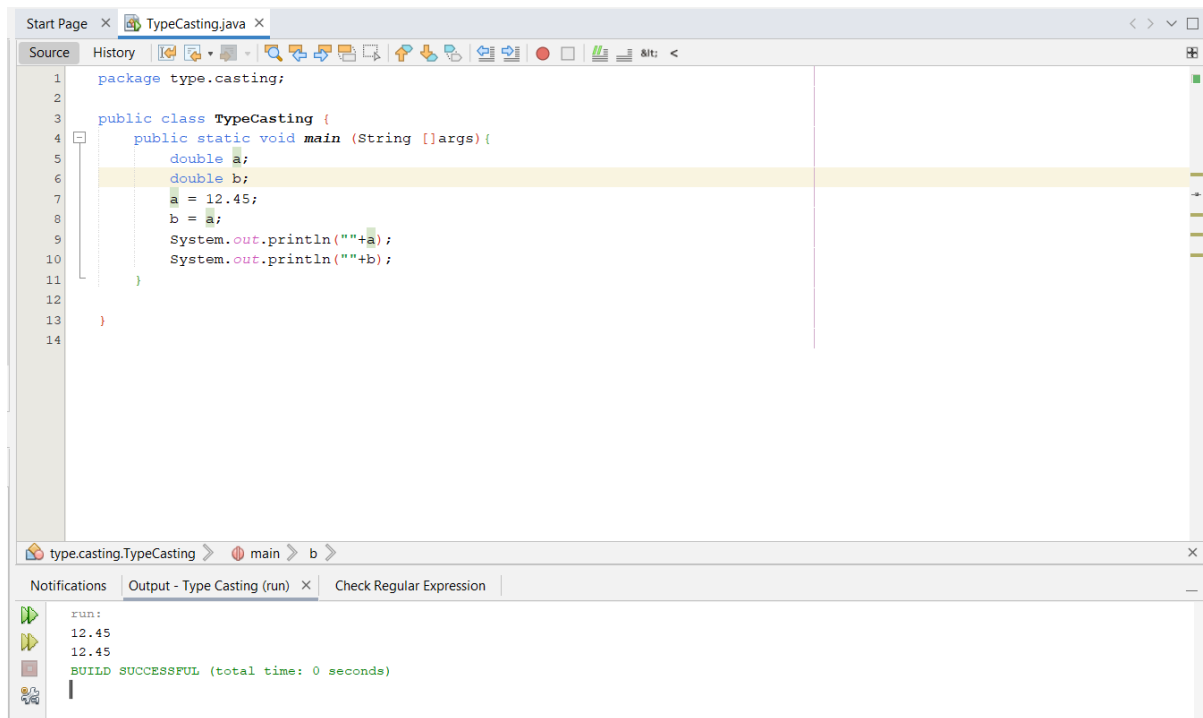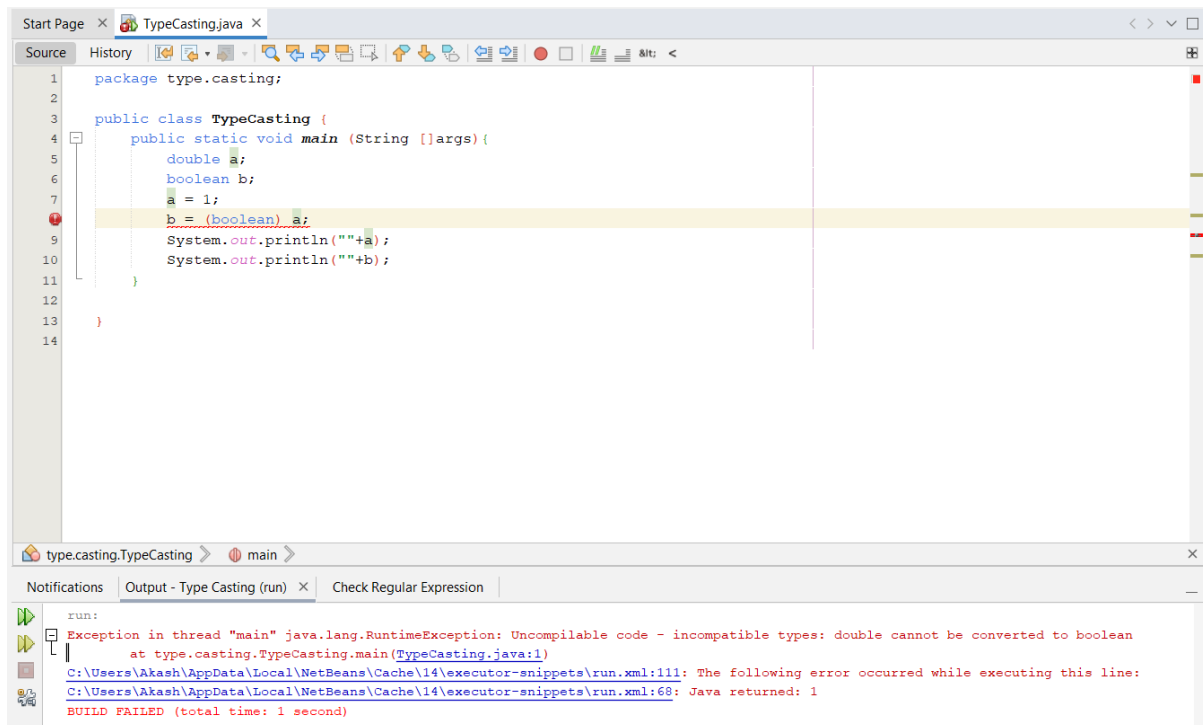**Explicit typecasting required**

55.   double to double

Typecasting not required

56.   double to boolean

Typecasting cannot be done

57.   boolean to char


```
package type.casting;

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

}
```

```
run:
Exception in thread "main" java.lang.RuntimeException: Uncompilable code - incompatible types: boolean cannot be converted to char
        at type.casting.TypeCasting.main(TypeCasting.java:1)
C:\Users\Akash\AppData\Local\NetBeans\Cache\14\executor-snippets\run.xml:111: The following error occurred while executing this line:
C:\Users\Akash\AppData\Local\NetBeans\Cache\14\executor-snippets\run.xml:68: Java returned: 1
BUILD FAILED (total time: 1 second)
```

<u>Typecasting cannot be done</u>

58.   boolean to byte


```
package type.casting;

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

}
```

```
run:
Exception in thread "main" java.lang.RuntimeException: Uncompilable code - incompatible types: boolean cannot be converted to byte
        at type.casting.TypeCasting.main(TypeCasting.java:1)
C:\Users\Akash\AppData\Local\NetBeans\Cache\14\executor-snippets\run.xml:111: The following error occurred while executing this line:
C:\Users\Akash\AppData\Local\NetBeans\Cache\14\executor-snippets\run.xml:68: Java returned: 1
BUILD FAILED (total time: 6 seconds)
```

<u>Typecasting cannot be done</u>

59. boolean to short

```
package type.casting;

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

}
```

```
run:
Exception in thread "main" java.lang.RuntimeException: Uncompilable code - incompatible types: boolean cannot be converted to short
        at type.casting.TypeCasting.main(TypeCasting.java:1)
C:\Users\Akash\AppData\Local\NetBeans\Cache\14\executor-snippets\run.xml:111: The following error occurred while executing this line:
C:\Users\Akash\AppData\Local\NetBeans\Cache\14\executor-snippets\run.xml:68: Java returned: 1
BUILD FAILED (total time: 1 second)
```

Typecasting cannot be done
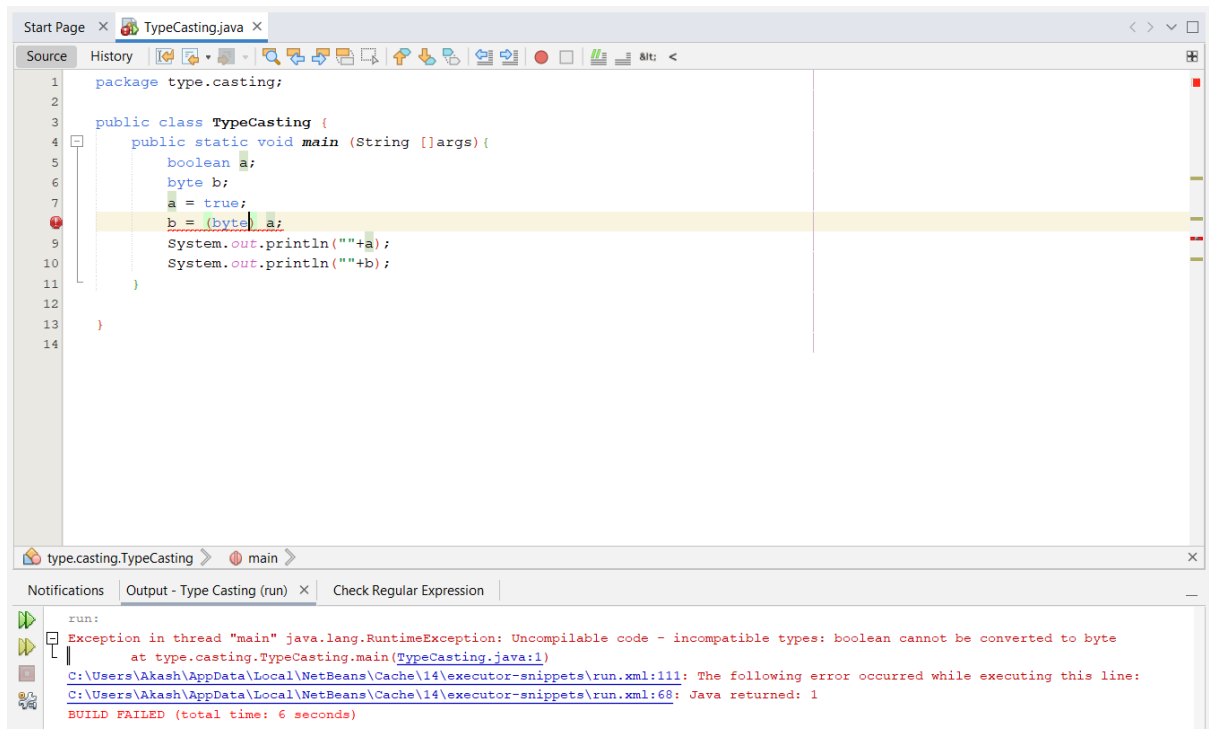
60. boolean to int

```
package type.casting;

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

}
```

```
run:
Exception in thread "main" java.lang.RuntimeException: Uncompilable code - incompatible types: boolean cannot be converted to int
        at type.casting.TypeCasting.main(TypeCasting.java:1)
C:\Users\Akash\AppData\Local\NetBeans\Cache\14\executor-snippets\run.xml:111: The following error occurred while executing this line:
C:\Users\Akash\AppData\Local\NetBeans\Cache\14\executor-snippets\run.xml:68: Java returned: 1
BUILD FAILED (total time: 3 seconds)
```

Typecasting cannot be done

61.   boolean to long


```java
package type.casting;

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

}
```

```
run:
Exception in thread "main" java.lang.RuntimeException: Uncompilable code - incompatible types: boolean cannot be converted to long
        at type.casting.TypeCasting.main(TypeCasting.java:1)
C:\Users\Akash\AppData\Local\NetBeans\Cache\14\executor-snippets\run.xml:111: The following error occurred while executing this line:
C:\Users\Akash\AppData\Local\NetBeans\Cache\14\executor-snippets\run.xml:68: Java returned: 1
BUILD FAILED (total time: 2 seconds)
```

Typecasting cannot be done

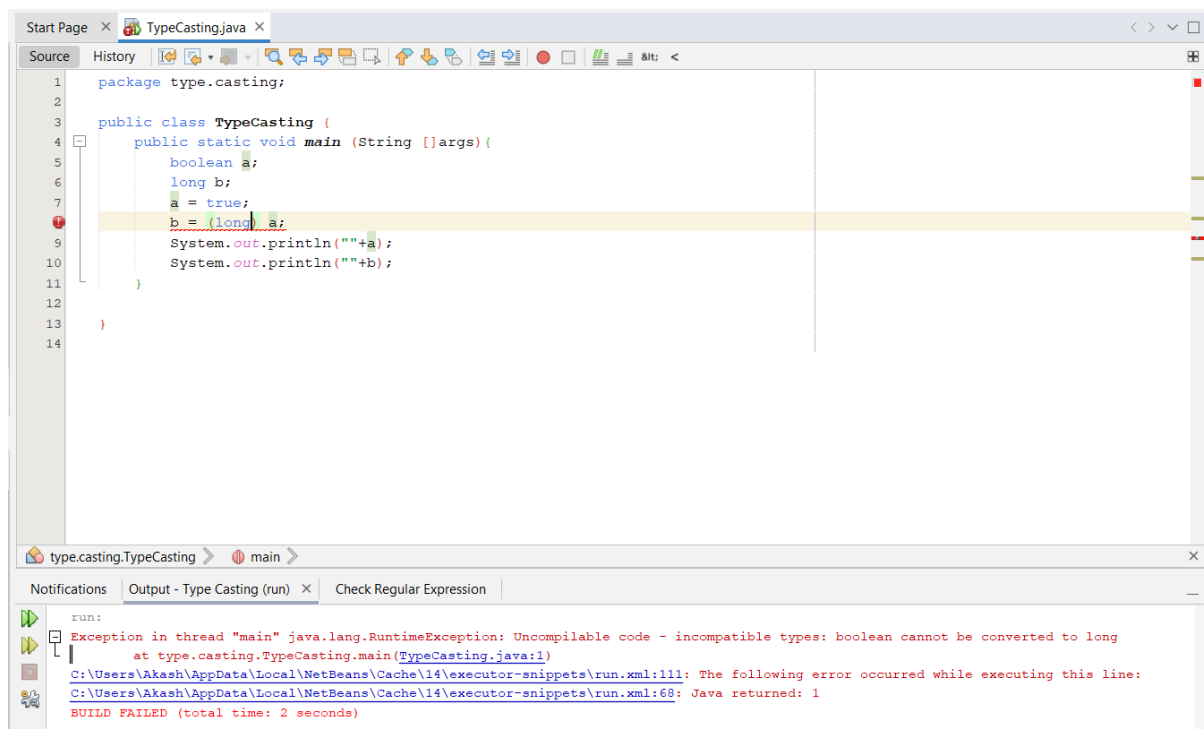# 62.   boolean to float


```java
package type.casting;

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

}
```
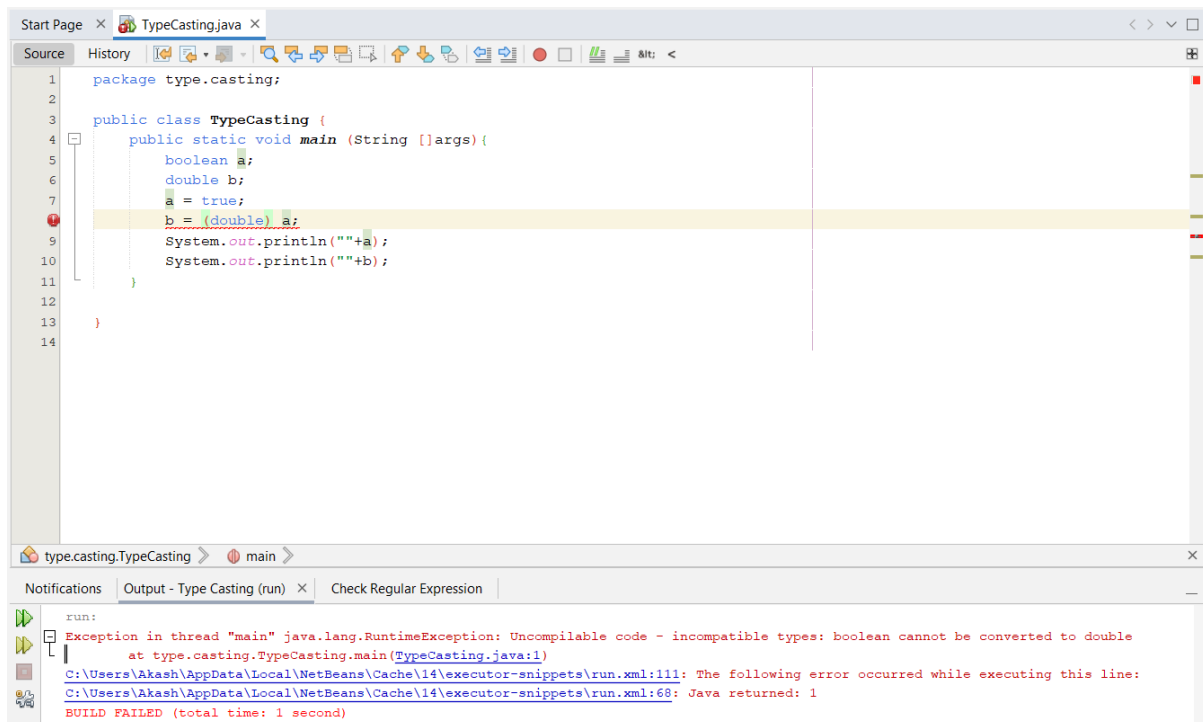
```
run:
Exception in thread "main" java.lang.RuntimeException: Uncompilable code - incompatible types: boolean cannot be converted to float
        at type.casting.TypeCasting.main(TypeCasting.java:1)
C:\Users\Akash\AppData\Local\NetBeans\Cache\14\executor-snippets\run.xml:111: The following error occurred while executing this line:
C:\Users\Akash\AppData\Local\NetBeans\Cache\14\executor-snippets\run.xml:68: Java returned: 1
BUILD FAILED (total time: 2 seconds)
```

Typecasting cannot be done
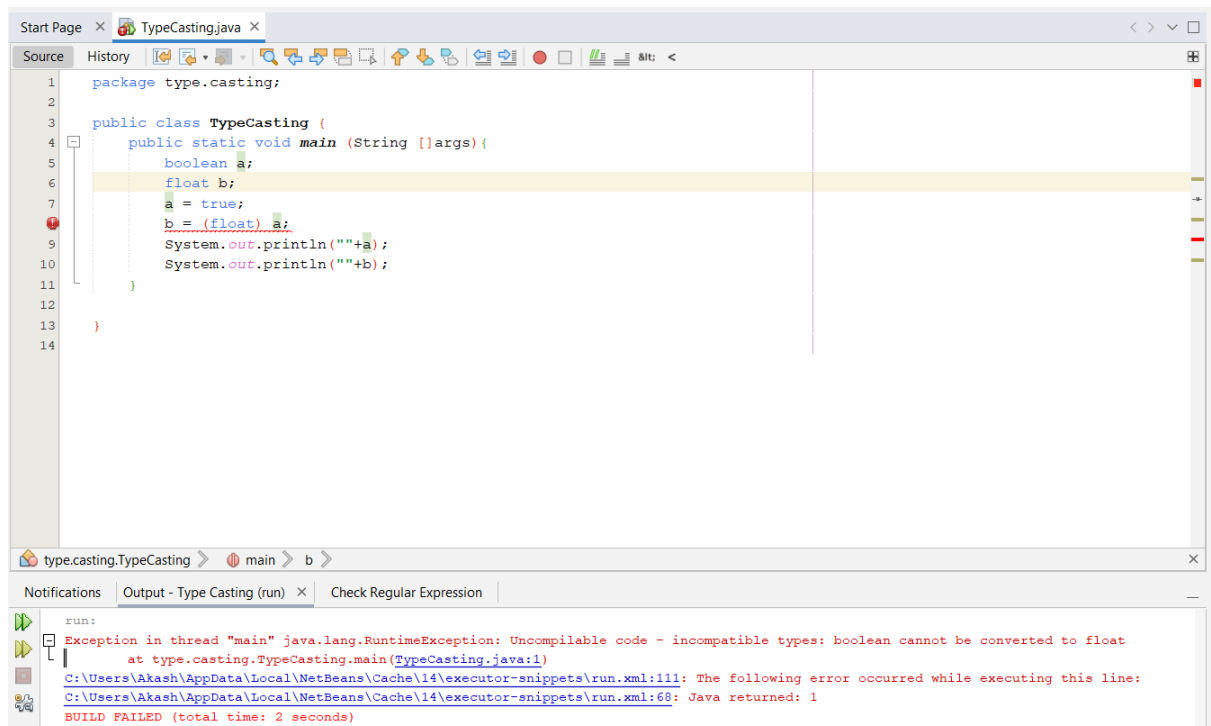
63.　　boolean to double

```
package type.casting;

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

}
```

```
run:
Exception in thread "main" java.lang.RuntimeException: Uncompilable code - incompatible types: boolean cannot be converted to double
        at type.casting.TypeCasting.main(TypeCasting.java:1)
C:\Users\Akash\AppData\Local\NetBeans\Cache\14\executor-snippets\run.xml:111: The following error occurred while executing this line:
C:\Users\Akash\AppData\Local\NetBeans\Cache\14\executor-snippets\run.xml:68: Java returned: 1
BUILD FAILED (total time: 1 second)
```

<u>Typecasting cannot be done</u>

64.　　boolean to boolean

```
package type.casting;

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

}
```
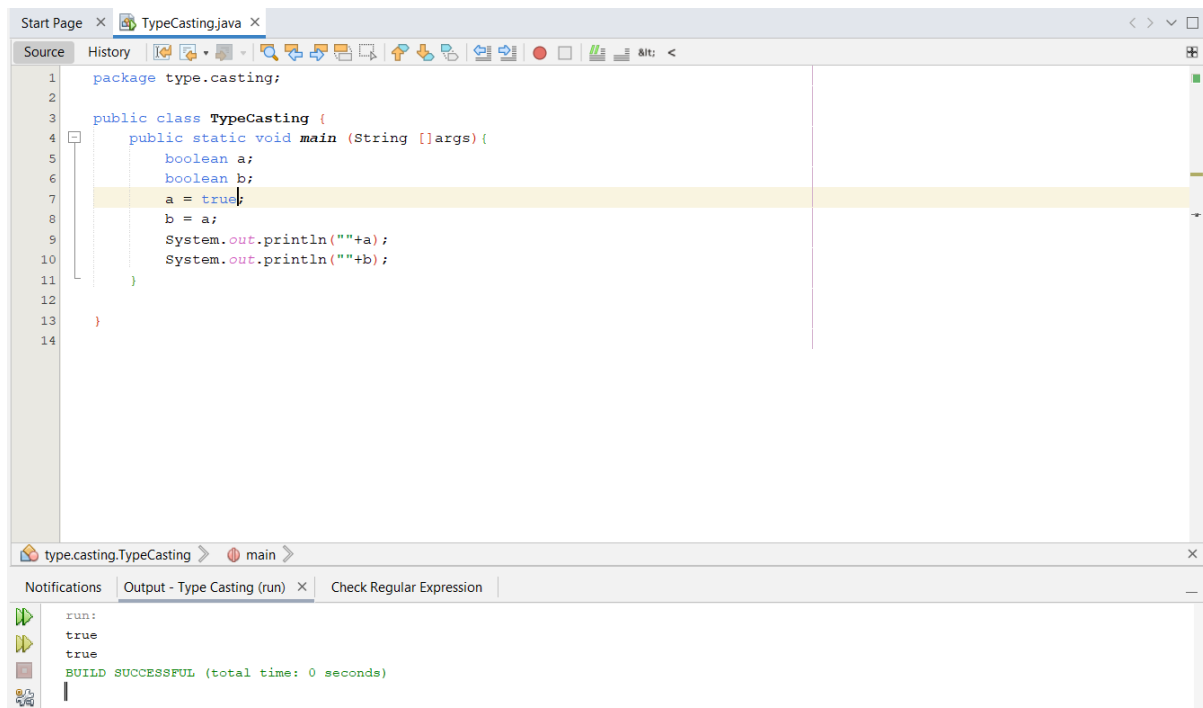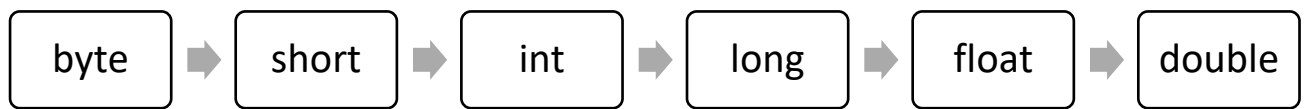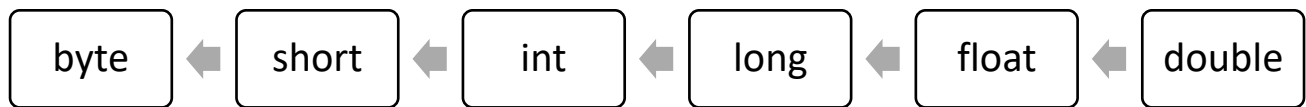
```
run:
true
true
BUILD SUCCESSFUL (total time: 0 seconds)
```

<u>Typecasting not required</u>

Implicit Typecasting:

byte ➡ short ➡ int ➡ long ➡ float ➡ double

Explicit Typecasting:

byte ⬅ short ⬅ int ⬅ long ⬅ float ⬅ double

Conclusion:

	char	byte	short	int	long	float	double	boolean
char	-	✓	✓	✓	✓	✓	✓	✕
byte	✓	-	✓	✓	✓	✓	✓	✕
short	✓	✓	-	✓	✓	✓	✓	✕
int	✓	✓	✓	-	✓	✓	✓	✕
long	✓	✓	✓	✓	-	✓	✓	✕
float	✓	✓	✓	✓	✓	-	✓	✕
double	✓	✓	✓	✓	✓	✓	-	✕
boolean	✕	✕	✕	✕	✕	✕	✕	-

- : Typecasting not required

✓ : Explicit typecasting required

✓ : Implicit typecasting required

✕ : Casting cannot be done