

Java to Kotlin File Conversion

Convert Java Code to Kotlin Code

Many projects and applications are coded using [Java](#) programming language. In a Kotlin application, you can have Java files along with Kotlin files. But, if you like to convert your Java code to Kotlin code, you may do so.

To migrate from Java to Kotlin, Kotlin Official is providing tools via online, which is using official Kotlin site, or offline, which is using IntelliJ IDEA integrated development environment.

A quick route for the above said methods is given below.

1. Use IntelliJ IDEA Main menu -> Code -> Convert Java File to Kotlin File
2. You can use the online converter from Kotlin Official Website. <https://try.kotlinlang.org/> -> Convert from Java

Of course, we shall go in detail using a step by step process and screenshots to better understand the process to convert Java code to Kotlin code.

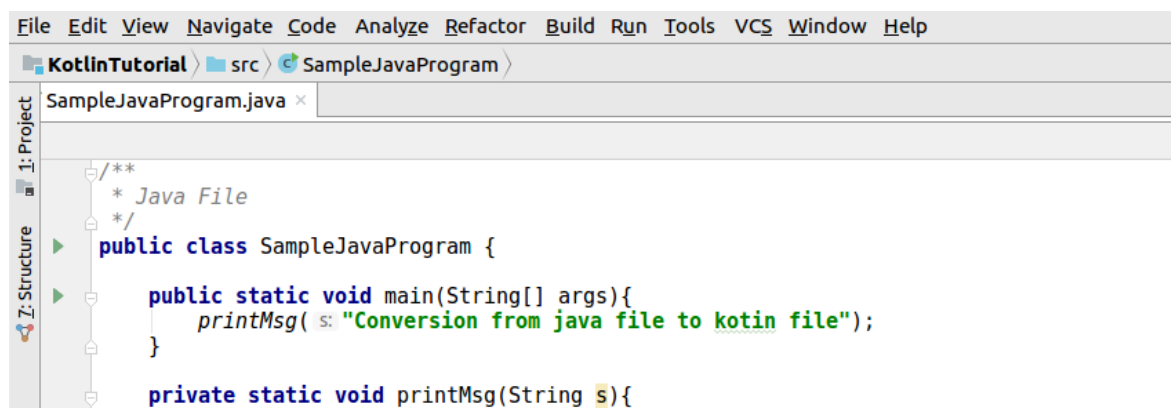
Note: If you are using IntelliJ IDEA or any other IDE with Kotlin Plugin, you can write Kotlin code along with Java code in the same .kt file.

Use IntelliJ IDEA – Convert Java File to Kotlin File

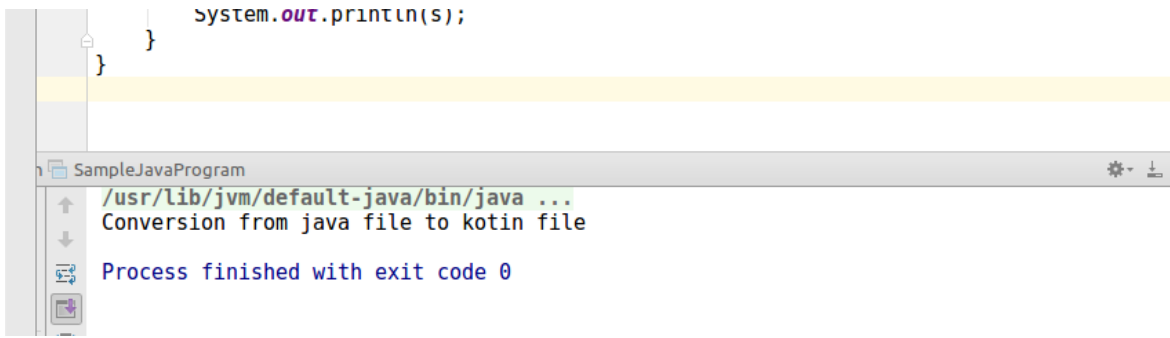
IntelliJ IDEA is an Integrated Development Environment by JetBrains.

Following are the steps to convert your Java File to Kotlin File using IntelliJ IDEA,

Step 1: Open your Project in IntelliJ IDEA, and open the Java file.

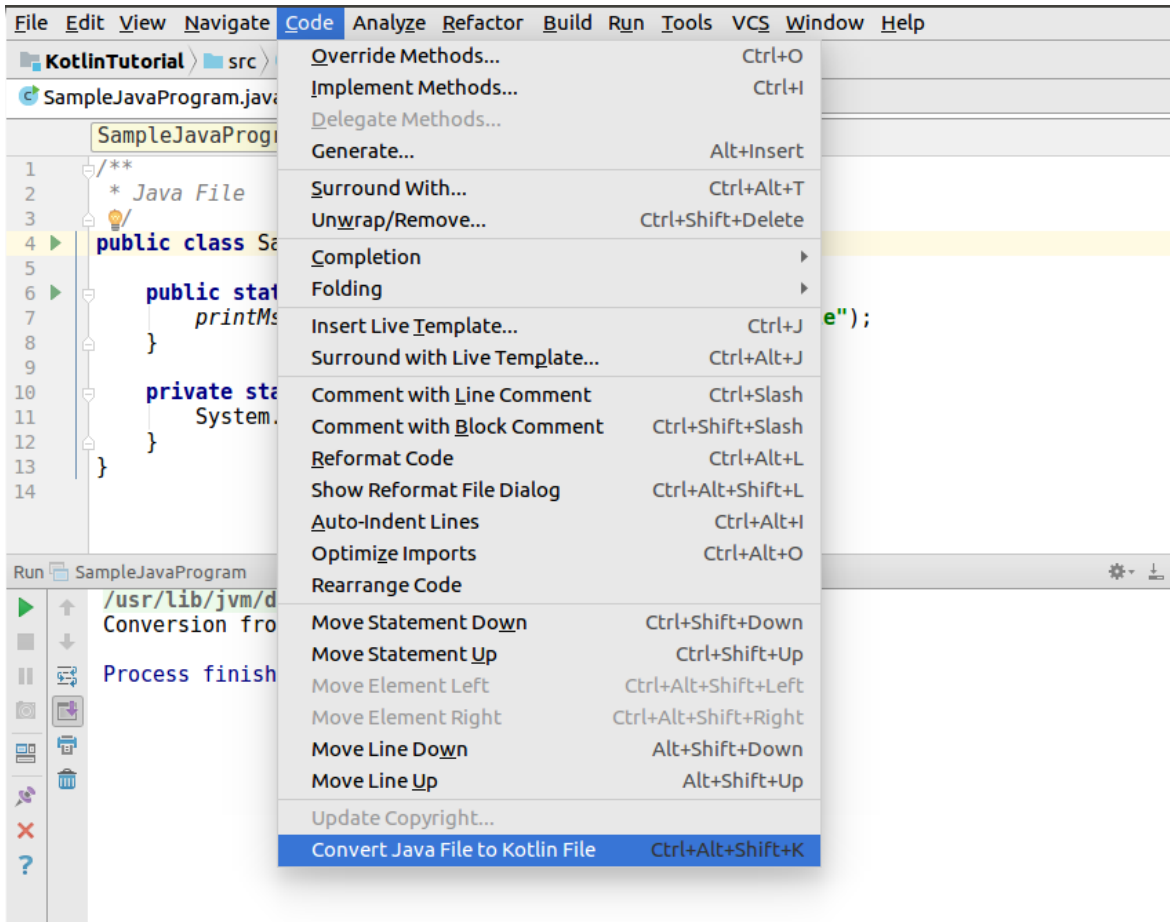


```
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
KotlinTutorial src SampleJavaProgram
SampleJavaProgram.java x
/**
 * Java File
 */
public class SampleJavaProgram {
    public static void main(String[] args){
        printMsg( s:"Conversion from java file to kotlin file");
    }
    private static void printMsg(String s){
```



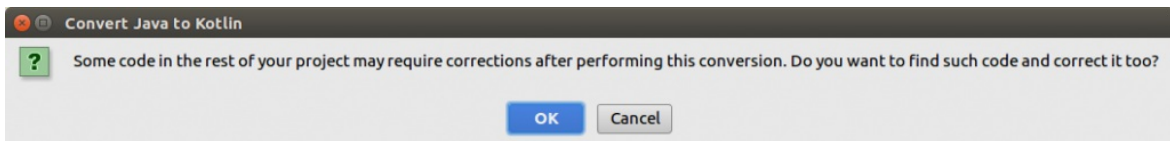
Open Java File in IntelliJ IDEA

Step 2: In the main menu bar, click on “Code”. Click on the item “Convert Java File to Kotlin File”



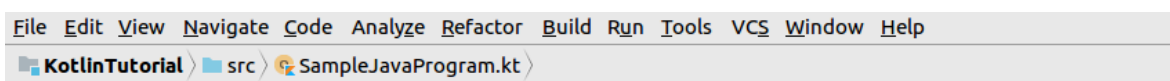
Main Menu -> Code -> Convert Java File to Kotlin File

Step 3: If you get a message “Some code in the rest of your project may require corrections after performing this conversion. Do you still want to find such code and correct it too?”, you may click OK.



Information Message

Step 4: Finally, your Java file is converted to a Kotlin file. Try running it.



```
SampleJavaProgram.kt x
SampleJavaProgram
/**
 * Java File
 */
object SampleJavaProgram {
    @JvmStatic fun main(args: Array<String>) {
        printMsg("Conversion from java file to kotlin file")
    }

    private fun printMsg(s: String) {
        println(s)
    }
}

SampleJavaProgram
/usr/lib/jvm/default-java/bin/java ...
Conversion from java file to kotlin file
Process finished with exit code 0
```

Java File is converted to Kotlin File

[Try Online “Convert from Java”](#)

Step 1: Hit the URL “<https://try.kotlinlang.org/>” in your favorite browser and click on “Convert from Java” button, highlighted in the below picture.

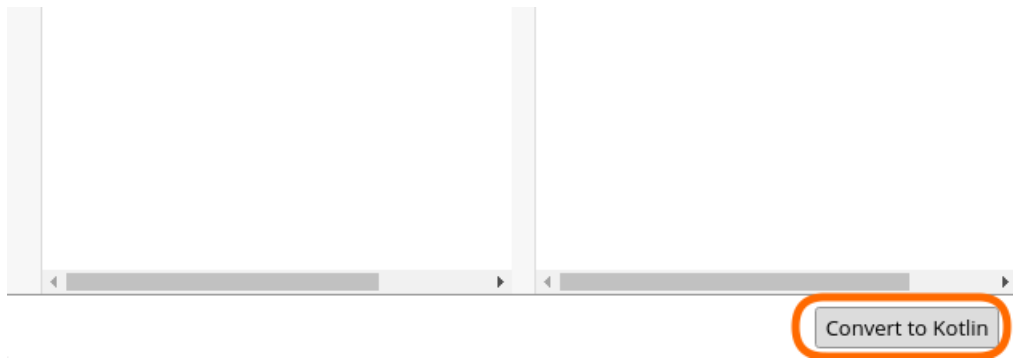


Hit the url

Step 2: Paste you Java Code in the left editor box and click on “Convert to Kotlin” button present in the bottom right corner of the window.

```
Convert your java code to kotlin x
1 public class SampleJavaProgram {
2     public static void main(String[] args){
3         printMsg("Conversion from java file
4     }
5
6     private static void printMsg(String s) {
7         System.out.println(s);
8     }
9 }
10 }

1 object SampleJavaProgram {
2     @JvmStatic fun main(args:Array<String>) {
3         printMsg("Conversion from java file to kotlin file")
4     }
5     private fun printMsg(s:String) {
6         println(s)
7     }
8 }
```



Convert to Kotlin Window

Conclusion

In this [Kotlin Tutorial](#), we learned how to convert Java File to Kotlin File.

If you are doing Android application development using Kotlin, you may refer how to [convert Java File in Android application to Kotlin File](#).

Kotlin Java

- ◆ [Kotlin Tutorial](#)

Getting Started

- ◆ [Setup Kotlin\(Java\) Project](#)

- ◆ [Kotlin Example Program](#)

⇒ **Convert Java to Kotlin**

- ◆ [Kotlin Main Function](#)

- ◆ [Kotlin Loops](#)

- ◆ [Kotlin For Loop](#)

- ◆ [Kotlin While, Do While Loops](#)

- ◆ [Kotlin Repeat](#)

- ◆ [Kotlin Ranges](#)

- ◆ [Kotlin When](#)

Object Oriented Concepts

Classes

- ◆ [Kotlin - Class, Primary and Secondary Constructors](#)

- ◆ [Kotlin Sealed Class](#)

▼ Kotlin Sealed Class

◆ Kotlin Data Class

◆ Kotlin Enum

◆ Kotlin - Extension Functions

Inheritance

◆ Kotlin Inheritance

◆ Kotlin Override Method of Super Class

Abstraction

◆ Kotlin Abstraction

◆ Kotlin Abstract Class

◆ Kotlin - Interfaces

◆ Kotlin Null Safety

Exception Handling

◆ Kotlin Try Catch

◆ Kotlin Throw Exception

◆ Kotlin Custom Exception

Fix Compilation Errors

◆ Kotlin - Variable must be initialized

◆ Kotlin - Primary Constructor call expected

◆ Kotlin - Null can not be a value of a non-null type String

◆ Kotlin - Cannot create an instance of an abstract class

Kotlin - String Operations

◆ Kotlin - Compare Strings

◆ Kotlin - Replace String

◆ Kotlin - Split String

◆ Kotlin - Split String to Lines

◆ Kotlin - String Capitalize

Kotlin - Functions

◆ Kotlin Function - Default Arguments

- ◆ [Kotlin - Use Function](#)

Kotlin Collections

Kotlin List

- ◆ [Kotlin List](#)
- ◆ [Kotlin List forEach](#)

Kotlin File Operations

- ◆ [Kotlin - Create File](#)
- ◆ [Kotlin - Read File](#)
- ◆ [Kotlin - Read File as List of Lines](#)
- ◆ [Kotlin - Write to File](#)
- ◆ [Kotlin - Append Text to File](#)
- ◆ [Kotlin - Check if File Exists](#)
- ◆ [Kotlin - Copy a File to Other](#)
- ◆ [Kotlin - Iterate through all files in a directory](#)
- ◆ [Kotlin - Delete Recursively](#)
- ◆ [Kotlin - Get File Extension](#)

Kotlin Interview Q/A

- ◆ [Kotlin Interview Questions](#)

Kotlin Android

- ◆ [Kotlin Android Tutorial](#)

Useful Resources

- ◆ [How to Learn Programming](#)