



Delete File in Dart

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Overview

Delete File in Dart

Delete file in other language

Comparing Dart with other languages

Delete File in Dart

Introduction

How to delete file in dart programming language using **File** class and **deleteSync()** method



Delete File in Dart

deleteSync method

Declaration

The following code is the declaration for **deleteSync()** method

```
void deleteSync(  
  {bool recursive = false}  
)
```

FileSystemEntity is a directory

```
// FileSystemEntity  
File file = File('test.txt');
```

if **recursive** is false, the directory must be empty. and if **recursive** is true, **FileStstemEntity** will be deleted including, all directory and sub-directories and files in the directories



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Delete File in Dart

Example deleteSync()

Assuming that file named test.txt is in the same directory with dart program

```
// dart program to delete file
import 'dart:io';

void main() {
  // open file
  File file = File('test.txt');
  // delete file
  file.deleteSync();
  print('File deleted.');
}
```

▼ Output

```
File deleted.
```

Note Throws an exception if the **FileSystemEntity** cannot be deleted.

Delete File in Dart

existsSync abstract method

Declaration

The following code is the declaration for **existsSync()** method

```
bool existsSync()
```

use **existsSync()** method to check whether if a file exists or not



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Example existsSync()

```
// dart program to delete file if exists
import 'dart:io';

void main() {
  // open file
  File file = File('test.txt');
  // check if file exists
  if (file.existsSync()) {
    // delete file
    file.deleteSync();
    print('File deleted.');
```

▼ Output

```
File does not exist.
```

Summary

import dart:io library to use **deleteSync()** for Synchronously deletes this FileSystemEntity and **existsSync()** for Synchronously checks whether the file system entity with this path exists.

Delete file in other language

(Java)

delete() and **deleteIfExists()** method

The method's signature is:

```
public static void delete(Path path)  
    throws IOException
```



```
public static boolean deleteIfExists(Path path)  
    throws IOException
```



Delete file in other language

(Java)

delete() and **deleteIfExists()** method

Example **delete()**

```
// Java program to delete a file
import java.io.*;

public class delete {
    public static void main(String[] args) {
        File file = new File("demo.txt");
        file.delete();
        System.out.println("File deleted successfully");
    }
}
```

▼ Output

```
File deleted successfully.
```

Example **deleteIfExists()**

```
import java.io.IOException;
import java.nio.file.*;

public class deleteIfExists {
    public static void main(String[] args) {
        try {
            Files.deleteIfExists(Paths.get("demo.txt"));
        } catch (NoSuchFileException e) {
            System.out.println("No such file/directory exists");
        } catch (DirectoryNotEmptyException e) {
            System.out.println("Directory is not empty.");
        } catch (IOException e) {
            System.out.println("Invalid permissions.");
        }
        System.out.println("Deletion successful.");
    }
}
```

▼ Output

```
Deletion successful.
```



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Summary

Import java.io package to use method **delete()** to delete a file and method **deleteIfExists()** to deletes a file if it exists (remind that that parameters must be a path).

Delete file in other language (Python)

os.remove() and **os.path.exists()** method

Syntax:

```
os.remove(path, *, dir_fd=None)
```

```
os.path.exists(path)
```

Delete file in other language

(Python)

os.remove() and **os.path.exists()** method

Example **os.remove()**

```
import os
os.remove("demofile.txt")
```

Example **os.path.exists()**

```
import os
if os.path.exists("demofile.txt"):
    os.remove("demofile.txt")
else:
    print("The file does not exist")
```

Summary

import module **os** to use **os.remove()** method to delete a file and **os.path.exists()** method is use to check whether the specified path is exists or not (remind that that parameters must be a path).

Delete file in other language

(C)

remove() function

Syntax:

Example **remove()**

```
int remove(const char *filename);
```

```
#include <stdio.h>

int main() {
    char* filename = "myfile.txt";
    int status = remove(filename);
    if (status == 0) {
        printf("File '%s' deleted successfully.\n", filename);
    } else {
        printf("Error deleting file '%s'.\n", filename);
    }
    return 0;
}
```

Summary

Use the C **remove()** function from the standard library to delete a file.

Comparing Dart with other languages (Python, C and Java)

The File Handling must import library or module that is related with I/O Streams (Input and output operations is required).

- Dart

```
import 'dart:io'
```



- Java

```
import java.io.*;
```



- Python

```
import os
```



- C Standard library

Comparing Dart with other languages (Python, C and Java)

After import library or module,
use method or function for
FileHandling target (remind that
that parameters must be a path).

- Dart

```
void deleteSync(  
  {bool recursive = false}  
)
```

- Java

```
public static void delete(Path path)  
    throws IOException
```

```
public static boolean deleteIfExists(Path path)  
    throws IOException
```

- Python

```
os.remove(path, *, dir_fd=None)
```

```
os.path.exists(path)
```

- C

```
int remove(const char *filename);
```

Reference

Dart

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•Java

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