

# Bash Script to Check if File is Directory – Example

## Bash Script to Check if File is Directory

---

**Bash Script to Check if File is Directory** – To check if the specified file is a directory in bash scripting, we shall use [ -d FILE ] expression with [bash if](#) statement.

- [Example 1](#) – Simple script to check if file exists and is a directory
- [Example 2](#) – Check if argument passed to function is a directory

### [Example 1 – Check if File Exists And is a Directory](#)

---

We shall consider /home/tutorialkart/ and /home/tutorialkart/sample.txt which are directory and file respectively. We shall verify the same with the help of following bash script.

#### Bash Script File

```
#!/bin/bash

# Scenario - File exists and is a directory
if [ -d /home/tutorialkart/ ];
then
    echo "/home/tutorialkart is directory"
else
    echo "/home/tutorialkart is not a directory"
fi

# Scenario - File exists and is not a directory
if [ -d /home/tutorialkart/sample.txt ];
then
    echo "/home/tutorialkart/sample.txt is a directory"
else
    echo "/home/tutorialkart/sample.txt is not a directory"
fi
```

When the above bash shell script is run in Terminal, we will get the following output.

#### Output

```
$ ./bash-script-if-file-is-directory
/home/tutorialkart is directory
/home/tutorialkart/sample.txt is not a directory
```

## Example 2 – Check if Path is Directory

---

We shall consider the same file and directory mentioned in the previous example. In this example, we shall write a function whose first argument is a FILE. And in the function we shall check if the passed argument (FILE) exists and is a directory.

### Bash Script File

```
#!/bin/bash

# function to check if passed argument is a directory and exists
checkIfDirectory() {
    # $1 meaning first argument
    if [ -d "$1" ];
    then
        echo "$1 exists and is a directory."
    else
        echo "$1 is not a directory."
    fi
}

# Scenario - File exists and is a directory
checkIfDirectory "/home/tutorialkart/"

# Scenario - File exists and is not a directory
checkIfDirectory "/home/tutorialkart/sample.txt"
```

When the above script is run in Terminal, we will get the following output.

### Output

```
$ ./bash-script-if-file-is-directory-2
/home/tutorialkart/ exists and is a directory.
/home/tutorialkart/sample.txt is not a directory.
```

## Conclusion

---

In this [Bash Tutorial](#) – Bash Script to Check if File is Directory, we have come across an example to check if the specified file exists and is a directory.

### Bash Shell Scripting

- ◆ [Bash Tutorial](#)
- ◆ [Bash Script Example](#)

◆ Bash File Extension

◆ Bash Echo

◆ Bash Comments

◆ Bash Variable

◆ Bash Command Line Arguments

◆ Bash Read User Input

◆ Bash Read Password

◆ Bash Date Format

◆ Bash Sleep

## Operators

◆ Bash Arithmetic Operators

## Conditional Statements

◆ Bash If

◆ Bash If Else

◆ Bash Else If

◆ Bash Case

## Loops

◆ Bash For Loop

◆ Bash While Loop

◆ Bash Until Loop

## Strings

◆ Bash String Manipulation Examples

◆ Bash String Length

◆ Bash If String Equals

◆ Bash Split String

◆ Bash SubString

◆ Bash Concatenate String

◆ Bash Concatenate Variables to Strings

## Functions

## FUNCTIONS

- ◆ Bash Function
- ◆ Bash Override Built-in Commands

## Arrays

- ◆ Bash Array

## Files

- ◆ Bash Write to File
- ◆ Bash Read File
- ◆ Bash Read File line by line
- ◆ Bash If File Exists
- ⇒ **Bash If File is Directory**
- ◆ Bash If File is Readable

## Bash Others

- ◆ Bash Check if variable is set