

## 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 – Simple script to 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-if-file-is-directory

```
#!/bin/bash
```

```
#!/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

Terminal Output

```
arjun@arjun-
VPCFH265Nw:/worksp
```

```
arjun@arjun-VPCEH26EN:~/workspace/bash$ ./bash-script-if-file-is-directory
/home/tutorialkart is directory
/home/tutorialkart/sample.txt is not a directory
```

## Example 2 – Check if argument passed to function is a 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-if-file-is-directory-2

```
#!/bin/bash
```

```
#!/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

Terminal Output

```
arjun@arjun-
VPCEH26EN:~/workspace
```

```
arjun@arjun-VPCEH26EN:~/workspace/bash$ ./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.

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