Bash Function

Last updated by | Shakibe Hasan | Jun 9, 2023 at 6:48 PM GMT+6

A Bash function can be defined as a set of commands which can be called several times within bash script.

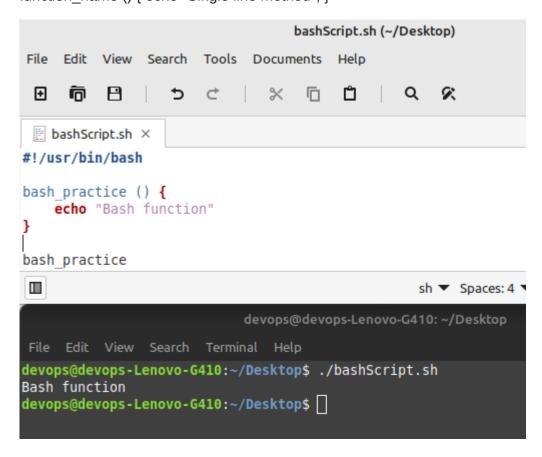
Following are some key points about bash functions:

- 1. A function has to be declared in the shell script before we can use it.
- 2. Arguments can be passed to the functions and accessed inside the function as \$1, \$2, etc.
- 3. Local variables can be assigned within the function, and the scope of such variables will only be that particular function.
- 4. Built-in commands of Bash shell can be overridden using functions.

Function Syntax

```
function_name () {
  echo"Most popular and widely used way"
}
or
```

function name () { echo "Single line method"; }

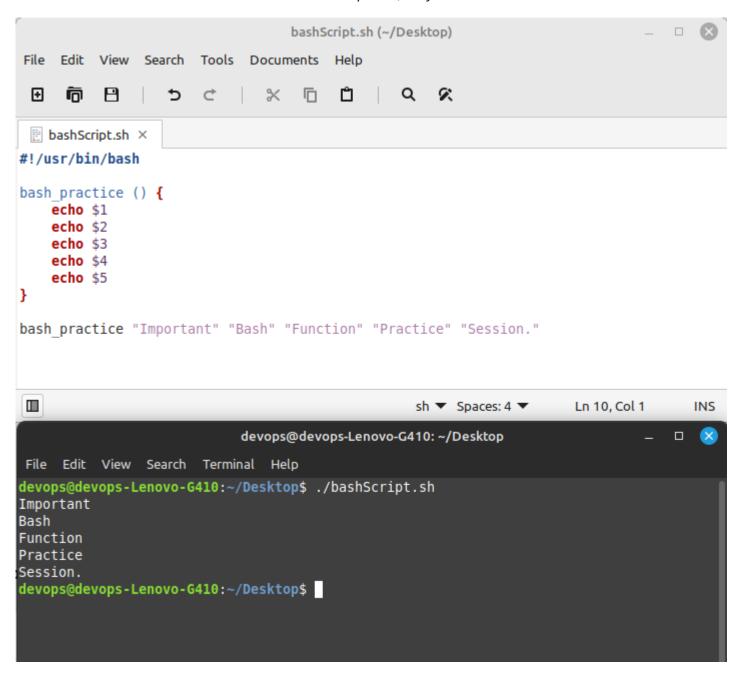


Passing Arguments

Following are some key points about passing arguments to the bash functions:

• The given arguments are accessed as \$1, \$2, \$3 ... \$n, corresponding to the position of the arguments after the function's name.

- The \$0 variable is kept reserved for the function's name.
- The \$# variable is used to hold the number of positional argument/ parameter given to the function.
- The \$* and \$@ variables are used to hold all the arguments/ parameters given to the function.
- When
 *"), it expands to a single string separated by the space. For example, "\$1 \$2 \$n etc".
- When @"), it expands to the separate string. For example, "\$1" " n" etc.
- When \$* and \$# are not used with the double quotes, they both are the same.



Variable Scope

- Global variable
- Local variable

```
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 bashScript.sh ×
#!/usr/bin/bash
age=28
height=176
variable scope () {
    local age=24 #Local variables can be declared within the function body
    height=150
    echo "Inside variable scope"
    echo "age is $age"
    echo "height is $height"
}
echo "Before executing the function"
echo "age is $age"
echo "height is $height"
variable scope
echo "After executing the function"
echo "age is $age"
echo "height is $height"
                            devops@devops-Lenovo-G410: ~/Desktop
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devops@devops-Lenovo-G410:~/Desktop$ ./bashScript.sh
Before executing the function
age is 28
height is 176
Inside variable scope
age is 24
height is 150
After executing the function
age is 28
height is 150
```

Ref: javatpoint.com

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