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BASH Programming

30 Bash Script Examples

2 years ago • by Fahmida Yesmin

Bash scripts can be used for various purposes, such as executing a shell command, running multiple commands together, customizing administrative tasks, performing task automation etc. So knowledge of bash programming basics is important for every Linux user. This article will help you to get the basic idea on bash programming. Most of the common operations of bash scripting are explained with very simple examples here.

The following topics of bash programming are covered in this article.

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2. [Echo Command](#)

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Create and Execute First BASH Program:

You can run bash script from the terminal or by executing any bash file. Run the following command from the terminal to execute a very simple bash statement. The output of the command will be 'Hello World'.

```
$ echo "Hello world"
ubuntu@ubuntu-VirtualBox:~$ echo "Hello World"
Hello World
```

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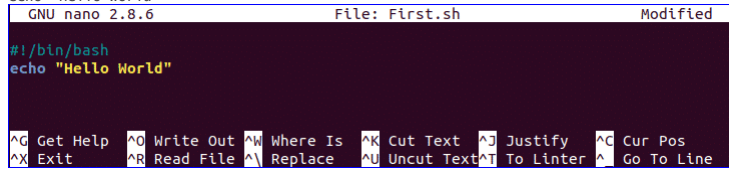
Bash How to Write a Variable to a File

Open any editor to create a bash file. Here, **nano** editor is used to create the file and filename is set as **'First.sh'**

```
$ nano First.sh
```

Add the following bash script to the file and save the file.

```
#!/bin/bash
echo "Hello world"
```



You can run bash file by two ways. One way is by using bash command and another is by setting execute permission to bash file and run the file. Both ways are shown here.

```
$ bash First.sh
```

Or,

```
$ chmod a+x First.sh
$ ./First.sh
ubuntu@ubuntu-VirtualBox:~$ bash First.sh
Hello World
ubuntu@ubuntu-VirtualBox:~$ chmod a+x First.sh
ubuntu@ubuntu-VirtualBox:~$ ./First.sh
Hello World
ubuntu@ubuntu-VirtualBox:~$
```

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### Use of echo command:

You can use echo command with various options. Some useful options are mentioned in the following example. When you use **'echo'** command without any option then a newline is added by default. **'-n'** option is used to print any text without new line and **'-e'** option is used to remove backslash characters from the output. Create a new bash file with a name, **'echo\_example.sh'** and add the following script.

```
#!/bin/bash
echo "Printing text with newline"
echo -n "Printing text without newline"
echo -e "\nRemoving \t backslash \t characters\n"
Run the file with bash command.
```

```
$ bash echo_example.sh
ubuntu@ubuntu-VirtualBox:~/code$ bash echo_example.sh
Printing text with newline
Printing text without newline
Removing      backslash      characters
ubuntu@ubuntu-VirtualBox:~/code$
```

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### Use of comment:

```
#!/bin/bash
# Add two numeric value
((sum=25+35))
#Print the result
echo $sum
Run the file with bash command.
```

```
$ bash comment_example.sh
ubuntu@ubuntu-VirtualBox:~/code$ bash comment_example.sh
60
ubuntu@ubuntu-VirtualBox:~/code$
```

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### Use of Multi-line comment:

You can use multi line comment in bash in various ways. A simple way is shown in the following example. Create a new bash named, '**multiline-comment.sh**' and add the following script. Here, ':' and " " symbols are used to add multiline comment in bash script. This following script will calculate the square of 5.

```
#!/bin/bash
:
The following script calculates
the square value of the number, 5.
:
((area=5*5))
echo $area
Run the file with bash command.
```

```
$ bash multiline-comment.sh
ubuntu@ubuntu-VirtualBox:~/code$ bash multiline-comment.sh
25
ubuntu@ubuntu-VirtualBox:~/code$
```

You can check the following link to know more about the use of bash comment.

[https://linuxhint.com/bash\\_comments/](https://linuxhint.com/bash_comments/)

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### Using While Loop:

Create a bash file with the name, '**while\_example.sh**', to know the use of **while** loop. In the example, **while** loop will iterate for **5** times. The value of **count** variable will increment by **1** in each step. When the value of **count** variable will 5 then the **while** loop will terminate.

```
#!/bin/bash
valid=true
count=1
while [ $valid ]
do
echo $count
if [ $count -eq 5 ];
then
break
fi
((count++))
done
Run the file with bash command.
```

```
$ bash while_example.sh
```

```
ubuntu@ubuntu-VirtualBox:~/code$ bash while_example.sh
1
2
3
4
5
ubuntu@ubuntu-VirtualBox:~/code$
```

You can check the following link to know more about the use of while loop.

<https://linuxhint.com/bash-while-loop-examples/>

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### Using For Loop:

The basic **for** loop declaration is shown in the following example. Create a file named '**for\_example.sh**' and add the following script using **for** loop. Here, **for** loop will iterate for **10** times and print all values of the variable, **counter** in single line.

```
#!/bin/bash
for (( counter=10; counter>0; counter-- ))
do
echo -n "$counter "
done
printf "\n"
```

Run the file with bash command.

```
$ bash for_example.sh
ubuntu@ubuntu-VirtualBox:~/code$ bash for_example.sh
10 9 8 7 6 5 4 3 2 1
ubuntu@ubuntu-VirtualBox:~/code$
```

You can use for loop for different purposes and ways in your bash script. You can check the following link to know more about the use of for loop.

<https://linuxhint.com/bash-for-loop-examples/>

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### Get User Input:

'**read**' command is used to take input from user in bash. Create a file named '**user\_input.sh**' and add the following script for taking input from the user. Here, one string value will be taken from the user and display the value by combining other string value.

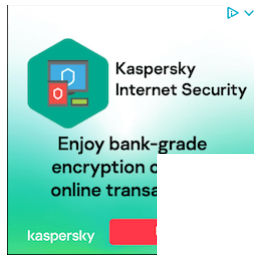
```
#!/bin/bash
echo "Enter Your Name"
read name
echo "Welcome $name to LinuxHint"
```

Run the file with bash command.

```
$ bash user_input.sh
```

You can check the following link to know more about the use of user input





<https://linuxhint.com/bash-script-user-input/>

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### Using if statement:

You can use if condition with single or multiple conditions. Starting and ending block of this statement is define by 'if' and 'fi'. Create a file named 'simple\_if.sh' with the following script to know the use if statement in bash. Here, 10 is assigned to the variable, n. if the value of \$n is less than 10 then the output will be "It is a one digit number", otherwise the output will be "It is a two digit number". For comparison, '-lt' is used here. For comparison, you can also use '-eq' for equality, '-ne' for not equality and '-gt' for greater than in bash script.

```
#!/bin/bash
n=10
if [ $n -lt 10 ];
then
echo "It is a one digit number"
else
echo "It is a two digit number"
fi
```

Run the file with bash command.

```
$ bash simple_if.sh
ubuntu@ubuntu-VirtualBox:~/code$ bash simple_if.sh
It is a two digit number
ubuntu@ubuntu-VirtualBox:~/code$
```

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### Using if statement with AND logic:

Different types of logical conditions can be used in if statement with two or more conditions. How you can define multiple conditions in if statement using AND logic is shown in the following example. '&&' is used to apply AND logic of if statement. Create a file named 'if\_with\_AND.sh' to check the following code. Here, the value of username and password variables will be taken from the user and compared with 'admin' and 'secret'. If both values match then the output will be "valid user", otherwise the output will be "invalid user".

```
#!/bin/bash
echo "Enter username"
read username
echo "Enter password"
read password

if [ ( $username == "admin" && $password == "secret" ) ]; then
echo "valid user"
else
echo "invalid user"
fi
```

Run the file with bash command.

```
$ bash if_with_AND.sh
ubuntu@ubuntu-VirtualBox:~/code$ bash if_with_AND.sh
Enter username
admin
Enter password
1234
invalid user
ubuntu@ubuntu-VirtualBox:~/code$ bash if_with_AND.sh
Enter username
admin
Enter password
secret
valid user
ubuntu@ubuntu-VirtualBox:~/code$
```

### Using if statement with OR logic:

'||' is used to define **OR** logic in **if** condition. Create a file named 'if\_with\_OR.sh' with the following code to check the use of **OR** logic of **if** statement. Here, the value of **n** will be taken from the user. If the value is equal to **15** or **45** then the output will be "You won the game", otherwise the output will be "You lost the game".

```
#!/bin/bash
echo "Enter any number"
read n
if [[ ( $n -eq 15 || $n -eq 45 ) ]]
then
echo "You won the game"
else
echo "You lost the game"
fi
```

Run the file with bash command.

```
$ bash if_with_OR.sh
ubuntu@ubuntu-VirtualBox:~/code$ bash if_with_OR.sh
Enter any number
40
You lost the game
ubuntu@ubuntu-VirtualBox:~/code$ bash if_with_OR.sh
Enter any number
15
You won the game
ubuntu@ubuntu-VirtualBox:~/code$
```

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### Using else if statement:

The use of **else if** condition is little different in bash than other programming language. 'elif' is used to define **else if** condition in bash. Create a file named, 'elseif\_example.sh' and add the following script to check how **else if** is defined in bash script.

```
#!/bin/bash
echo "Enter your lucky number"
read n
if [ $n -eq 101 ];
then
echo "You got 1st prize"
elif [ $n -eq 510 ];
then
echo "You got 2nd prize"
elif [ $n -eq 999 ];
then
echo "You got 3rd prize"
else
echo "Sorry, try for the next time"
fi
```

Run the file with bash command.

```
$ bash elseif_example.sh
ubuntu@ubuntu-VirtualBox:~/code$ bash elseif_example.sh
Enter your lucky number
101
You got 1st prize
ubuntu@ubuntu-VirtualBox:~/code$ bash elseif_example.sh
Enter your lucky number
999
You got 3rd prize
ubuntu@ubuntu-VirtualBox:~/code$ bash elseif_example.sh
Enter your lucky number
100
Sorry, try for the next time
ubuntu@ubuntu-VirtualBox:~/code$
```

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### Using Case Statement:

**Case** statement is used as the alternative of **if-elseif-else** statement. The starting and ending block of this statement is defined by 'case' and 'esac'. Create a new file named, 'case\_example.sh' and add the following script. The output of the following script will be same to the previous **else if** example.

```
#!/bin/bash
echo "Enter your lucky number"
read n
case $n in
101)
echo echo "You got 1st prize" ;;
510)
echo "You got 2nd prize" ;;
999)
echo "You got 3rd prize" ;;
*)
echo "Sorry, try for the next time" ;;
esac
```

Run the file with bash command.

```
$ bash case_example.sh
```

```
ubuntu@ubuntu-VirtualBox:~/code$ bash case_example.sh
Enter your lucky number
101
echo You got 1st prize
ubuntu@ubuntu-VirtualBox:~/code$ bash case_example.sh
Enter your lucky number
510
You got 2nd prize
ubuntu@ubuntu-VirtualBox:~/code$ bash case_example.sh
Enter your lucky number
999
You got 3rd prize
ubuntu@ubuntu-VirtualBox:~/code$ bash case_example.sh
Enter your lucky number
777
Sorry, try for the next time
ubuntu@ubuntu-VirtualBox:~/code$
```

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### Get Arguments from Command Line:

Bash script can read input from command line argument like other programming language. For example, **\$1** and **\$2** variable are used to read first and second command line arguments. Create a file named "**command\_line.sh**" and add the following script. Two argument values read by the following script and prints the total number of arguments and the argument values as output.

```
#!/bin/bash
echo "Total arguments : $#"
```

```
echo "1st Argument = $1"
```

```
echo "2nd argument = $2"
```

Run the file with bash command.

```
$ bash command_line.sh Linux Hint
ubuntu@ubuntu-VirtualBox:~/code$ bash command_line.sh Linux Hint
Total arguments : 2
1st Argument = Linux
2nd argument = Hint
ubuntu@ubuntu-VirtualBox:~/code$
```

You can check the following link to know more about the use of command line argument.

[https://linuxhint.com/command\\_line\\_arguments\\_bash\\_script/](https://linuxhint.com/command_line_arguments_bash_script/)

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### Get arguments from command line with names:

How you can read command line arguments with names is shown in the following script. Create a file named, '**command\_line\_names.sh**' and add the following code. Here, two arguments, **X** and **Y** are read by this script and print the sum of X and Y.

```
#!/bin/bash
for arg in "$@"
do
index=$(echo $arg | cut -f1 -d=)
val=$(echo $arg | cut -f2 -d=)
case $index in
X) x=$val;;
Y) y=$val;;
*)
esac
done
((result=x+y))
echo "X+Y=$result"
```

Run the file with bash command and with two command line arguments.

```
$ bash command_line_names X=45 Y=30
ubuntu@ubuntu-VirtualBox:~/code$ bash command_line_names.sh X=45 Y=30
X+Y=75
ubuntu@ubuntu-VirtualBox:~/code$
```

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### Combine String variables:

You can easily combine string variables in bash. Create a file named "**string\_combine.sh**" and add the following script to check how you can combine string variables in bash by placing variables together or using '+' operator.

```
#!/bin/bash
string1="Linux"
string2="Hint"
echo "$string1$string2"
string3=$string1$string2
string3+=" is a good tutorial blog site"
echo $string3
```

```
ubuntu@ubuntu-VirtualBox:~/code$ bash string_combine.sh
LinuxHint
Linux+Hint is a good tutorial blog site
ubuntu@ubuntu-VirtualBox:~/code$
```

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### Get substring of String:

Like other programming language, bash has no built-in function to cut value from any string data. But you can do the task of substring in another way in bash that is shown in the following script. To test the script, create a file named 'substring\_example.sh' with the following code. Here, the value, **6** indicates the starting point from where the substring will start and **5** indicates the length of the substring.

```
#!/bin/bash
Str="Learn Linux from LinuxHint"
substr=${Str:6:5}
echo $substr
Run the file with bash command.
```

```
$ bash substring_example.sh
ubuntu@ubuntu-VirtualBox:~/code$ bash substring_example.sh
Linux
ubuntu@ubuntu-VirtualBox:~/code$
```

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### Add Two Numbers:

You can do the arithmetical operations in bash in different ways. How you can add two integer numbers in bash using double brackets is shown in the following script. Create a file named 'add\_numbers.sh' with the following code. Two integer values will be taken from the user and printed the result of addition.

```
#!/bin/bash
echo "Enter first number"
read x
echo "Enter second number"
read y
(( sum=x+y ))
echo "The result of addition=$sum"
Run the file with bash command.
```

```
$ bash add_numbers.sh
ubuntu@ubuntu-VirtualBox:~/code$ bash add_numbers.sh
Enter first number
25
Enter second number
56
The result of addition=81
ubuntu@ubuntu-VirtualBox:~/code$
```

You can check the following link to know more about bash arithmetic.

[https://linuxhint.com/bash\\_arithmetic\\_operations/](https://linuxhint.com/bash_arithmetic_operations/)

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### Create Function:

How you can create a simple function and call the function is shown in the following script. Create a file named 'function\_example.sh' and add the following code. You can call any function by name only without using any bracket in bash script.

```
#!/bin/bash
function F1()
{
echo 'I like bash programming'
}
F1
Run the file with bash command.
```

```
$ bash function_example.sh
ubuntu@ubuntu-VirtualBox:~/code$ bash function_example.sh
I like bash programming
ubuntu@ubuntu-VirtualBox:~/code$
```

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### Create function with Parameters:



named `'function_parameter.sh'` and add the following code. Here, the function, `'Rectangle_Area'` will calculate the area of a rectangle based on the parameter values.

```
#!/bin/bash

Rectangle_Area() {
    area=$(( $1 * $2 ))
    echo "Area is : $area"
}

Rectangle_Area 10 20
```

Run the file with bash command.

```
$ bash function_parameter.sh
ubuntu@ubuntu-VirtualBox:~/code$ bash function_parameter.sh
Area is : 200
ubuntu@ubuntu-VirtualBox:~/code$
```

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### Pass Return Value from Function:

Bash function can pass both numeric and string values. How you can pass a string value from the function is shown in the following example. Create a file named, `'function_return.sh'` and add the following code. The function, `greeting()` returns a string value into the variable, `val` which prints later by combining with other string.

```
#!/bin/bash
function greeting() {
    str="Hello, $name"
    echo $str
}

echo "Enter your name"
read name

val=$(greeting)
echo "Return value of the function is $val"
```

Run the file with bash command.

```
$ bash function_return.sh
ubuntu@ubuntu-VirtualBox:~/code$ bash function_return.sh
Enter your name
John
Return value of the function is Hello, John
ubuntu@ubuntu-VirtualBox:~/code$
```

You can check the following link to know more about the use of bash function.

<https://linuxhint.com/return-string-bash-functions/>

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### Make Directory:

Bash uses `'mkdir'` command to create a new directory. Create a file named `'make_directory.sh'` and add the following code to take a new directory name from the user. If the directory name is not exist in the current location then it will create the directory, otherwise the program will display error.

```
#!/bin/bash
echo "Enter directory name"
read newdir
mkdir $newdir
```

Run the file with bash command.

```
$ bash make_directory.sh
ubuntu@ubuntu-VirtualBox:~/code/temp$ bash make_directory.sh
Enter directory name
test_dir
ubuntu@ubuntu-VirtualBox:~/code/temp$ ls
make_directory.sh  test_dir
ubuntu@ubuntu-VirtualBox:~/code/temp$
```

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### Make directory by checking existence:

If you want to check the existence of directory in the current location before executing the `'mkdir'` command then you can use the following code. `'-d'` option is used to test a particular directory is exist or not. Create a file named, `'directory_exist.sh'` and add the following code to create a directory by checking existence.

```
#!/bin/bash
echo "Enter directory name"
```

```
echo "Directory created"
fi
Run the file with bash command.
```

```
$ bash directory_exist.sh
ubuntu@ubuntu-VirtualBox:~/code/temp$ bash directory_exist.sh
Enter directory name
newdir
Directory created
ubuntu@ubuntu-VirtualBox:~/code/temp$ ls
directory_exist.sh  make_directory.sh  newdir  test_dir
ubuntu@ubuntu-VirtualBox:~/code/temp$
```

You can check the following link to know more about directory creation.

[https://linuxhint.com/bash\\_mkdir\\_not\\_existent\\_path/](https://linuxhint.com/bash_mkdir_not_existent_path/)

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### Read a File:

You can read any file line by line in bash by using loop. Create a file named, 'read\_file.sh' and add the following code to read an existing file named, 'book.txt'.

```
#!/bin/bash
file="book.txt"
while read line; do
echo $line
done < $file
Run the file with bash command.
```

```
$ bash read_file.sh
Run the following command to check the original content of 'book.txt' file.
```

```
$ cat book.txt
ubuntu@ubuntu-VirtualBox:~/code$ bash read_file.sh
1. Pro AngularJS
2. Learning JQuery
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4. CodeIgniter 3
ubuntu@ubuntu-VirtualBox:~/code$ cat book.txt
1. Pro AngularJS
2. Learning JQuery
3. PHP Programming
4. CodeIgniter 3
ubuntu@ubuntu-VirtualBox:~/code$
```

You can check the following link to know the different ways to read file.

[https://linuxhint.com/read\\_file\\_line\\_by\\_line\\_bash/](https://linuxhint.com/read_file_line_by_line_bash/)

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### Delete a File:

'rm' command is used in bash to remove any file. Create a file named 'delete\_file.sh' with the following code to take the filename from the user and remove. Here, '-i' option is used to get permission from the user before removing the file.

```
#!/bin/bash
echo "Enter filename to remove"
read fn
rm -i $fn
Run the file with bash command.
```

```
$ ls
$ bash delete_file.sh
$ ls
ubuntu@ubuntu-VirtualBox:~/code/temp$ ls
delete_file.sh  make_directory.sh  test_dir
directory_exist.sh  newdir  test.txt
ubuntu@ubuntu-VirtualBox:~/code/temp$ bash delete_file.sh
Enter filename to remove
test.txt
rm: remove regular file 'test.txt'? y
ubuntu@ubuntu-VirtualBox:~/code/temp$ ls
delete_file.sh  directory_exist.sh  make_directory.sh  newdir  test_dir
ubuntu@ubuntu-VirtualBox:~/code/temp$
```

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### Append to File:

New data can be added into any existing file by using '>>' operator in bash. Create a file named 'append\_file.sh' and add the following code to add new content at the end of the file. Here, 'Learning Laravel 5' will be added at the of 'book.txt' file after executing the script.

```
echo "Learning Laravel 5">> book.txt
echo "After appending the file"
cat book.txt
```

Run the file with bash command.

```
$ bash append_file.sh
ubuntu@ubuntu-VirtualBox:~/code/temp$ bash append_file.sh
Before appending the file
1. Pro AngularJS
2. Learning JQuery
3. PHP Programming
4. CodeIgniter 3
After appending the file
1. Pro AngularJS
2. Learning JQuery
3. PHP Programming
4. CodeIgniter 3
Learning Laravel 5
ubuntu@ubuntu-VirtualBox:~/code/temp$
```

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### Test if File Exist:

You can check the existence of file in bash by using `'-e'` or `'-f'` option. `'-f'` option is used in the following script to test the file existence. Create a file named, `'file_exist.sh'` and add the following code. Here, the filename will pass from the command line.

```
#!/bin/bash
filename=$1
if [ -f "$filename" ]; then
echo "File exists"
else
echo "File does not exist"
fi
```

Run the following commands to check the existence of the file. Here, **book.txt** file exists and **book2.txt** is not exist in the current location.

```
$ ls
$ bash file_exist.sh book.txt
$ bash file_exist.sh book2.txt
ubuntu@ubuntu-VirtualBox:~/code/temp$ ls
append_file.sh  delete_file.sh  file_exist.sh  newdir
book.txt        directory_exist.sh  make_directory.sh  test_dir
ubuntu@ubuntu-VirtualBox:~/code/temp$ bash file_exist.sh book.txt
File exists
ubuntu@ubuntu-VirtualBox:~/code/temp$ bash file_exist.sh book2.txt
File does not exist
ubuntu@ubuntu-VirtualBox:~/code/temp$
```

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### Send Email:

You can send email by using `'mail'` or `'sendmail'` command. Before using these commands, you have to install all necessary packages. Create a file named, `'mail_example.sh'` and add the following code to send the email.

```
#!/bin/bash
Recipient="admin@example.com"
Subject="Greeting"
Message="Welcome to our site"
`mail -s $Subject $Recipient <<< $Message`
```

Run the file with bash command.

```
$ bash mail_example.sh
ubuntu@ubuntu-VirtualBox:~/code$ bash mail_example.sh
ubuntu@ubuntu-VirtualBox:~/code$
```

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### Get Parse Current Date:

You can get the current system date and time value using `'date'` command. Every part of date and time value can be parsed using `'Y'`, `'m'`, `'d'`, `'H'`, `'M'` and `'S'`. Create a new file named `'date_parse.sh'` and add the following code to separate day, month, year, hour, minute and second values.

```
#!/bin/bash
Year=`date +%Y`
Month=`date +%m`
Day=`date +%d`
Hour=`date +%H`
Minute=`date +%M`
Second=`date +%S`
echo "Current Date is: $Day-$Month-$Year"
echo "Current Time is: $Hour:$Minute:$Second"
```

Run the file with bash command.

```
$ bash date_parse.sh
```

```
ubuntu@ubuntu-VirtualBox:~/code$ bash date_parse.sh
Mon Jul 9 12:04:41 EDT 2018
Current Date is: 09-07-2018
Current Time is: 12:04:41
ubuntu@ubuntu-VirtualBox:~/code$
```

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### Wait Command:

**wait** is a built-in command of Linux that waits for completing any running process. **wait** command is used with a particular process id or job id. If no process id or job id is given with wait command then it will wait for all current child processes to complete and returns exit status. Create a file named '**wait\_example.sh**' and add the following script.

```
#!/bin/bash
echo "wait command" &
process_id=$!
wait $process_id
echo "Exited with status $?"
Run the file with bash command.
```

```
$ bash wait_example.sh
ubuntu@ubuntu-VirtualBox:~/code$ bash wait_example.sh
Wait command
Exited with status 0
```

You can check the following link to know more about wait command.

[” Wait Command in Linux](#)

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### Sleep Command:

When you want to pause the execution of any command for specific period of time then you can use **sleep** command. You can set the delay amount by **seconds (s)**, **minutes (m)**, **hours (h)** and **days (d)**. Create a file named '**sleep\_example.sh**' and add the following script. This script will wait for 5 seconds after running.

```
#!/bin/bash
echo "wait for 5 seconds"
sleep 5
echo "Completed"
Run the file with bash command.
```

```
$ bash sleep_example.sh
ubuntu@ubuntu-VirtualBox:~/code$ bash sleep_example.sh
Wait for 5 seconds
Completed
ubuntu@ubuntu-VirtualBox:~/code$
```

You can check the following link to know more about sleep command.

[https://linuxhint.com/sleep\\_command\\_linux/](https://linuxhint.com/sleep_command_linux/)

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Hope, after reading this article you have got a basic concept on bash scripting language and you will be able to apply them based on your requirements.

## ABOUT THE AUTHOR



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I am a trainer of web programming courses. I like to write article or tutorial on various IT topics. I have a YouTube channel where many types of tutorials based on Ubuntu, Windows, Word, Excel, WordPress, Magento, Laravel etc. are published: [Tutorials4u Help](#).

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