

# Bash String

Last updated by | Shakibe Hasan | Jun 9, 2023 at 5:57 PM GMT+6

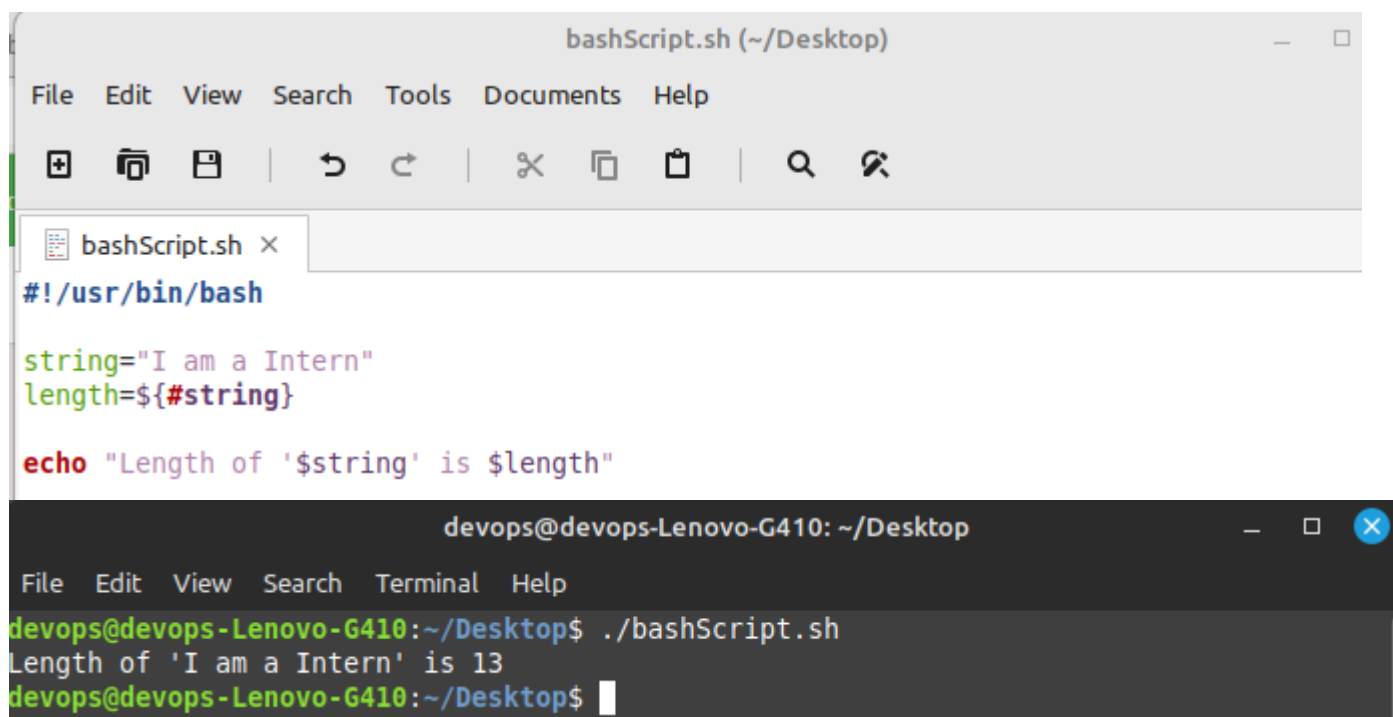
## Creating a String

- `string="I am a Intern"`

## String Operators:

- **Equal operator (=)** is used to check whether two strings are equal.
- **Not equal operator (!=)** is used to define that strings are not equal.
- **Less than operator (<)** is used to check if string1 is less than string2.
- **Greater than operator (>)** is used to check if string1 is greater than string2.
- **[ -n \$string ]** operator is to check if the string is zero or greater than zero.
- **[ -z \$string ]** operator is used to check if the string is empty or equal to zero.

## Bash String Length



The image shows two windows. The top window is a code editor titled 'bashScript.sh (~/Desktop)' with a menu bar (File, Edit, View, Search, Tools, Documents, Help) and a toolbar. It contains the following code:

```
#!/usr/bin/bash

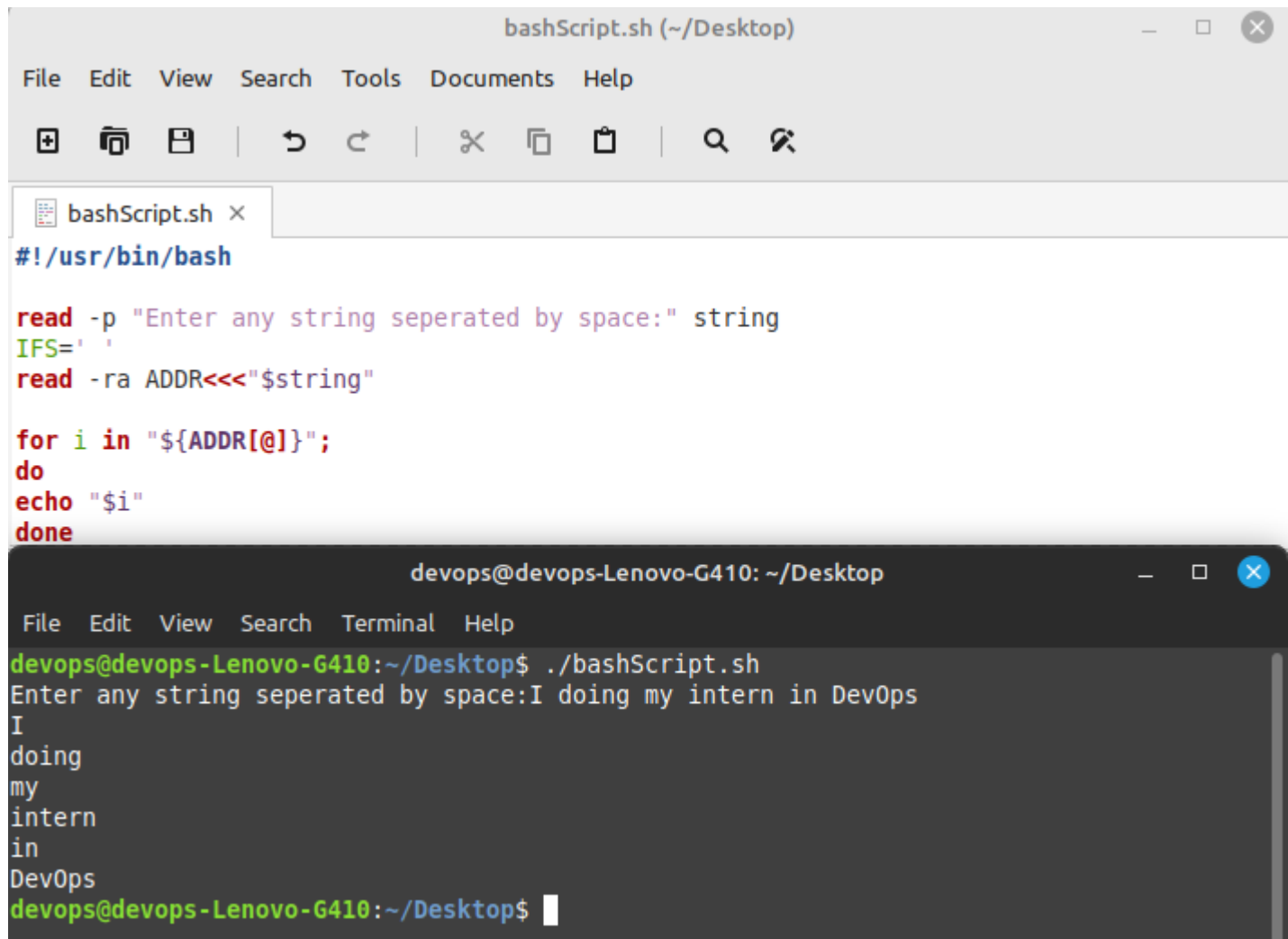
string="I am a Intern"
length=${#string}

echo "Length of '$string' is $length"
```

The bottom window is a terminal titled 'devops@devops-Lenovo-G410: ~/Desktop' with a menu bar (File, Edit, View, Search, Terminal, Help). It shows the execution of the script:

```
devops@devops-Lenovo-G410:~/Desktop$ ./bashScript.sh
Length of 'I am a Intern' is 13
devops@devops-Lenovo-G410:~/Desktop$
```

## Bash Split String by Space



The image shows two windows. The top window is a text editor titled 'bashScript.sh (~/Desktop)'. It contains a bash script that reads a string from the user and then iterates over each character of that string, printing each character on a new line. The script is as follows:

```
#!/usr/bin/bash

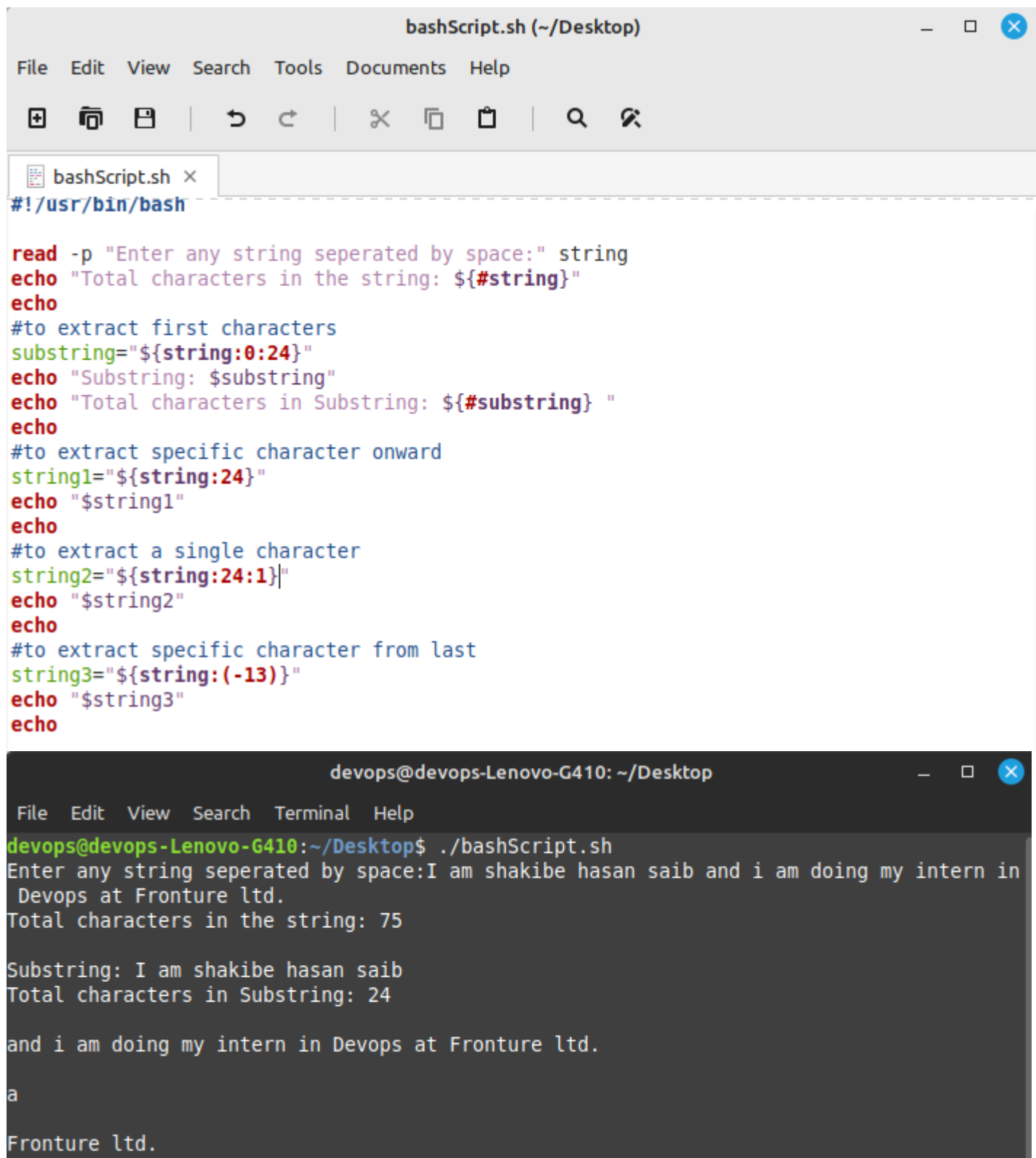
read -p "Enter any string seperated by space:" string
IFS=' '
read -ra ADDR<<<"$string"

for i in "${ADDR[@]}";
do
echo "$i"
done
```

The bottom window is a terminal titled 'devops@devops-Lenovo-G410: ~/Desktop'. It shows the execution of the script: the user runs './bashScript.sh', enters the string 'I doing my intern in DevOps', and the script outputs each word of the string on a new line.

```
devops@devops-Lenovo-G410:~/Desktop$ ./bashScript.sh
Enter any string seperated by space:I doing my intern in DevOps
I
doing
my
intern
in
DevOps
devops@devops-Lenovo-G410:~/Desktop$
```

To Extract Characters from Starting



```
bashScript.sh (~/Desktop)
File Edit View Search Tools Documents Help
bashScript.sh x
#!/usr/bin/bash

read -p "Enter any string seperated by space:" string
echo "Total characters in the string: ${#string}"
echo
#to extract first characters
substring="${string:0:24}"
echo "Substring: $substring"
echo "Total characters in Substring: ${#substring} "
echo
#to extract specific character onward
string1="${string:24}"
echo "$string1"
echo
#to extract a single character
string2="${string:24:1}"
echo "$string2"
echo
#to extract specific character from last
string3="${string:(-13)}"
echo "$string3"
echo

devops@devops-Lenovo-G410: ~/Desktop
File Edit View Search Terminal Help
devops@devops -Lenovo-G410:~/Desktop$ ./bashScript.sh
Enter any string seperated by space:I am shakibe hasan saib and i am doing my intern in
Devops at Fronture ltd.
Total characters in the string: 75

Substring: I am shakibe hasan saib
Total characters in Substring: 24

and i am doing my intern in Devops at Fronture ltd.

a

Fronture ltd.
```

Ref: [javatpoint.com](https://www.javatpoint.com)