

1. For Loop

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch for_loop.sh
root@348b1b94d28058d:~/linux_commands# vi for_loop.sh
root@348b1b94d28058d:~/linux_commands# chmod +x for_loop.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
learn="Start learning from Javatpoint."
for learn in $learn
do
    echo $learn
done
echo "Thankyou"
```

Step 3:

Run the script and get the output.

```
./for_loop.sh: line 2: learn: command not found
Thankyou
root@348b1b94d28058d:~/linux_commands# vi for_loop.sh
```

2. For Loop

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch for_loop2.sh
root@348b1b94d28058d:~/linux_commands# vi for_loop2.sh
root@348b1b94d28058d:~/linux_commands# chmod +x for_loop2.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
for num in {1..10}
do
    echo $num
done
echo "Series of numbers from 1 to 10"
-
~
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./for_loop2.sh
1
2
3
4
5
6
7
8
9
10
Series of numbers from 1 to 10
```

3. For Loop

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch for_loop3.sh
root@348b1b94d28058d:~/linux_commands# vi for_loop3.sh
root@348b1b94d28058d:~/linux_commands# chmod +x for_loop3.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
for num in {1..10..1}
do
    echo $num
done
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./for_loop3.sh
1
2
3
4
5
6
7
8
9
10
root@348b1b94d28058d:~/linux_commands# _
```

4. For Loop

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch for_loop4.sh
root@348b1b94d28058d:~/linux_commands# vi for_loop4.sh
root@348b1b94d28058d:~/linux_commands# chmod +x for_loop4.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
for num in {10..0..1}
do
    echo $num
done
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./for_loop4.sh
10
9
8
7
6
5
4
3
2
1
0
```

5. For Loop

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch for_loop5.sh
root@348b1b94d28058d:~/linux_commands# vi for_loop5.sh
root@348b1b94d28058d:~/linux_commands# chmod +x for_loop5.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
array=("element1" "element2" "elements")
for i in "${array[@]}"
do
    echo $i
done
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./for_loop5.sh
element1
element2
elements
root@348b1b94d28058d:~/linux_commands# _
```

6. For Loop

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# vi for_loop6.sh
root@348b1b94d28058d:~/linux_commands# chmod +x for_loop6.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
array=( "Welcome" "to" "Javatpoint" )
for i in "${array[@]}"
do
    echo $i
done
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./for_loop6.sh
Welcome
to
Javatpoint
root@348b1b94d28058d:~/linux commands#
```

7. For Loop

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# vi for_loop7.sh
root@348b1b94d28058d:~/linux_commands# ./for_loop7.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
str="Let's start
learning from Javatpoint"
for i in $str;
do
    echo "$i"
done
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./for_loop7.sh
Let's
start
Learning
from
Javatpoint
root@348b1b94d28058d:~/linux commands#
```

8. For Loop

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch for_loop8.sh
root@348b1b94d28058d:~/linux_commands# vi for_loop8.sh
root@348b1b94d28058d:~/linux_commands# chmod +x for_loop8.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
str="Let's start
learning from
Javapoint"
for i in "$str"
do
    echo "$i"
done
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./for_loop8.sh
Let's start
learning from
Javapoint
root@348b1b94d28058d:~/linux_commands#
```

9. For Loop

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch for_loop9.sh
root@348b1b94d28058d:~/linux_commands# vi for_loop9.sh
root@348b1b94d28058d:~/linux_commands# chmod +x for_loop9.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
for (( i=1; i<=10; i++ ))
do
    echo "$i"
done
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./for_loop9.sh
1
2
3
4
5
6
7
8
9
10
root@348b1b94d28058d:~/linux_commands#
```

10. For Loop

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch for_loop10.sh
root@348b1b94d28058d:~/linux_commands# vi for_loop10.sh
root@348b1b94d28058d:~/linux_commands# chmod +x for_loop10.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
for table in {2..100..2}
do
    echo $table
    if [ $table == 20 ]; then
        break;
    fi
done
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./for_loop10.sh
2
4
6
8
10
12
14
16
18
20
root@348b1b94d28058d:~/linux_commands#
```

11. For Loop

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch for_loop11.sh
root@348b1b94d28058d:~/linux_commands# vi for_loop11.sh
root@348b1b94d28058d:~/linux_commands# chmod +x for_loop11.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
for (( i=1; i<=20; i++ ));
do
    if [[ $i -gt 5 && $i -lt 16 ]];
    then
        continue
    fi
    echo $i
done
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./for_loop11.sh
1
2
3
4
5
16
17
18
19
20
root@348b1b94d28058d:~/linux_commands# _
```

12. For Loop

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch for_loop12.sh
root@348b1b94d28058d:~/linux_commands# vi for_loop12.sh
root@348b1b94d28058d:~/linux commands# chmod +x for_loop12.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
i=1;
for ((;))
do
    sleep 1s
    echo "Current number: $((i++))"
done
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./for_loop12.sh
Current number: 1
Current number: 2
Current number: 3
Current number: 4
Current number: 5
Current number: 6
Current number: 7
Current number: 8
Current number: 9
Current number: 10
Current number: 11
Current number: 12
Current number: 13
Current number: 14
Current number: 15
Current number: 16
Current number: 17
Current number: 18
^C
```

1. Case Statement

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch case1.sh
root@348b1b94d28058d:~/linux_commands# vi case1.sh
root@348b1b94d28058d:~/linux_commands# chmod +x case1.sh
root@348b1b94d28058d:~/linux_commands# ./case1.sh
Do you know Java Programming?
Yes/No?:yes
That's amazing.
```

Step 2:

Write script in the file.

```
#!/bin/bash
echo "Do you know Java Programming?"
read -p "Yes/No?:" Answer
case $Answer in
    Yes|yes|Y|y)
        echo "That's amazing."
        echo
        ;;
    No|no|N|n)
        echo "It's easy. Let's start learning from javapoint."
        ;;
esac
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./case1.sh
Do you know Java Programming?
Yes/No?:yes
That's amazing.

root@348b1b94d28058d:~/linux_commands#
```

2. Case Statement

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# vi case1.sh
root@348b1b94d28058d:~/linux_commands# touch case2.sh
root@348b1b94d28058d:~/linux_commands# vi case2.sh
root@348b1b94d28058d:~/linux_commands# chmod +x case2.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
echo "Which Operating system are you working on?"
echo "Windows, Andriod, Chrome, Linux, Others?"
read -p "Type your Os name:" OS
case $OS in
    Windows|windows)
        echo "That's common. You should try something new."
        echo
        ;;
    Android|android)
        echo "This is my favorite"
        echo
        ;;
    Chrome|chrome)
        echo "Cool!! Amazing choice"
        echo
        ;;
    Linux|linux)
        echo "You might be serious about security"
        echo
        ;;
    *)
        echo "Sounds Interesting."
        echo
        ;;
esac
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./case2.sh
Which Operating system are you working on?
Windows, Andriod, Chrome, Linux, Others?
Type your Os name:windows
That's common. You should try something new.
```

1. While Loop

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch while1.sh
root@348b1b94d28058d:~/linux_commands# vi while1.sh
root@348b1b94d28058d:~/linux_commands# chmod +x while1.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
read -p "Enter starting number:" snum
read -p "Enter ending number:" enums
while [[ $snum -le $enums ]];
do
    echo $snum
    ((snum++))
done
echo "This is the sequence that you wanted"
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./while1.sh
Enter starting number:2
Enter ending number:12
2
3
4
5
6
7
8
9
10
11
12
This is the sequence that you wanted
```

2. While Loop

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch while2.sh
root@348b1b94d28058d:~/linux_commands# vi while2.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
read -p "Enter starting number:" snum
read -p "Enter ending number:" enums
while [[ $snum -le $enums || $snum == $enums ]];
do
    echo $snum
    ((snum++))
done
echo "This is the sequence that you wanted"
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./while2.sh
Enter starting number:2
Enter ending number:12
2
3
4
5
6
7
8
9
10
11
12
This is the sequence that you wanted
```

3. Infinite While Loop

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch while3.sh  
root@348b1b94d28058d:~/linux_commands# vi while3.sh  
root@348b1b94d28058d:~/linux_commands# chmod +x while3.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
while :
do
    echo "Welcome to JavaPoint"
done
```

Step 3:

Run the script and get the output.

4. Infinite While Loop

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch while4.sh  
root@348b1b94d28058d:~/linux_commands# vi while4.sh  
root@348b1b94d28058d:~/linux_commands# chmod +x while4.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
while true
do
    echo "Welcome to JavaPoint"
done
```

Step 3:

Run the script and get the output.

5. While Loop

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch while5.sh
root@348b1b94d28058d:~/linux_commands# vi while5.sh
root@348b1b94d28058d:~/linux_commands# chmod +x while5.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
echo "Countdown for website Launching.."
i=10
while [[ $i -ge 1 ]]
do
    if [[ $i == 2 ]]
    then
        echo "Mission Aborted. Some Technical Error Found"
        break
    fi
    echo "$i"
    ((i--))
done
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./while5.sh
Countdown for website Launching..
10
9
8
7
6
5
4
3
Mission Aborted. Some Technical Error Found
root@348b1b94d28058d:~/linux_commands# _
```

6. While Loop

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch while6.sh
root@348b1b94d28058d:~/linux_commands# vi while6.sh
root@348b1b94d28058d:~/linux_commands# chmod +x while6.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
i=0
while [ $i -le 10 ]
do
    ((i++))
    if [[ "$i" == 5 ]];
    then
        continue
    fi
    echo "Current Number: $i"
done
echo "Skipped number 5 using Continue Statement."
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./while6.sh
Current Number: 1
Current Number: 2
Current Number: 3
Current Number: 4
Current Number: 6
Current Number: 7
Current Number: 8
Current Number: 9
Current Number: 10
Current Number: 11
Skipped number 5 using Continue Statement.
root@348b1b94d28058d:~/linux_commands#
```

6. While Loop

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch while7.sh
root@348b1b94d28058d:~/linux_commands# vi while7.sh
root@348b1b94d28058d:~/linux_commands# chmod +x while
chmod: cannot access 'while': No such file or directory
root@348b1b94d28058d:~/linux_commands#
root@348b1b94d28058d:~/linux_commands# chmod +x while7.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
i=1
while (( i<=10 ))
do
    echo $i
    let i++
done
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./while7.sh
1
2
3
4
5
6
7
8
9
10
root@348b1b94d28058d:~/linux_commands# -
```

1. Until Loop

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch until1.sh
root@348b1b94d28058d:~/linux_commands# vi until1.sh
root@348b1b94d28058d:~/linux_commands# chmod +x until1.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
i=1
until [ $i -gt 10 ]
do
    echo $i
    ((i++))
done
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./until1.sh
1
2
3
4
5
6
7
8
9
10
root@348b1b94d28058d:~/linux_commands# _
```

2. Until Loop

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch until2.sh
root@348b1b94d28058d:~/linux_commands# vi until2.sh
root@348b1b94d28058d:~/linux_commands# chmod +x until2.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
max=5
a=1
b=0
until [[ $a -gt $max || $b -gt $max ]];
do
    echo "a=$a & b=$b"
    ((a++))
    ((b++))
done
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./until2.sh
a=1 & b=0
a=2 & b=1
a=3 & b=2
a=4 & b=3
a=5 & b=4
root@348b1b94d28058d:~/linux_commands#
```

1. String

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch string1.sh
root@348b1b94d28058d:~/linux_commands# vi string1.sh
root@348b1b94d28058d:~/linux_commands# chmod +x string1.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
str1="Welcometojavatpoint"
str2="javatpoint"
if [ $str1 = $str2 ];
then
    echo "Both the strings are equal"
else
    echo "Strings are not equal"
fi
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./string1.sh
Strings are not equal
root@348b1b94d28058d:~/linux_commands#
```

2. String

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch string2.sh
root@348b1b94d28058d:~/linux_commands# vi string2.sh
root@348b1b94d28058d:~/linux_commands# chmod +x string2.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
str1="Welcometojavatpoint"
str2="javatpoint"
if [ $str1 < $str2 ];
then
    echo "$str1 is less than $str2"
else
    echo "$str1 is not less than $str2"
fi
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./string2.sh
Welcometojavatpoint is less than javatpoint
root@348b1b94d28058d:~/linux_commands# -
```

3. String

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch string3.sh
root@348b1b94d28058d:~/linux_commands# vi string3.sh
root@348b1b94d28058d:~/linux_commands# chmod +x string3.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
str1="Welcometojavatpoint"
str2="javatpoint"
if [ $str1 != $str2 ];
then
    echo "String are not equal"
else
    echo "Strings are equal"
fi
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./string3.sh
String are not equal
root@348b1b94d28058d:~/linux_commands# ■
```

4. String

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# vi string4.sh
root@348b1b94d28058d:~/linux_commands# touch string4.sh
root@348b1b94d28058d:~/linux_commands# vi string4.sh
root@348b1b94d28058d:~/linux_commands# chmod +x string4.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
str1="WelcometoJavatpoint"
str2="Javatpoint"
if [ $str1 \> $str2 ];
then
    echo "$str1 is less than $str2"
else
    echo "$str1 is not less than $str2"
fi
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./string4.sh
WelcometoJavatpoint is less than Javatpoint
root@348b1b94d28058d:~/linux_commands#
```

5. String

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# vi string5.sh
root@348b1b94d28058d:~/linux_commands# touch string5.sh
root@348b1b94d28058d:~/linux_commands# vi string5.sh
root@348b1b94d28058d:~/linux_commands# chmod +x string5.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
str="WelcometoJavaPoint"
if [ -n $str ];
then
    echo "String is not empty"
else
    echo "String is empty"
fi
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./string5.sh
String is not empty
root@348b1b94d28058d:~/linux_commands#
```

6. String

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch string6.sh
root@348b1b94d28058d:~/linux_commands# vi string6.sh
root@348b1b94d28058d:~/linux_commands# cp string5.sh string6.sh
root@348b1b94d28058d:~/linux_commands# vi string6.sh
root@348b1b94d28058d:~/linux_commands# chmod +x string6.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
str=""
if [ -z $str ];
then
    echo "String is empty"
else
    echo "String is not empty"
fi
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./string6.sh
String is empty
root@348b1b94d28058d:~/linux_commands#
```

1.Find String

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch find_string1.sh
root@348b1b94d28058d:~/linux_commands# vi find_string1.sh
root@348b1b94d28058d:~/linux_commands# chmod +x find_string1.sh
root@348b1b94d28058d:~/linux_commands# chmod +x find_string1.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
str="WelcometoJavatpoint"
length=${#str}
echo "Length of '$str' is $length"
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./find_string1.sh
Length of 'WelcometoJavatpoint' is 19
root@348b1b94d28058d:~/linux_commands# -
```

1. Find String

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch find_string2.sh
root@348b1b94d28058d:~/linux_commands# vi find_string2.sh
root@348b1b94d28058d:~/linux_commands# cp find_string1.sh find_string2.sh
root@348b1b94d28058d:~/linux_commands# vi find_string2.sh
root@348b1b94d28058d:~/linux_commands# chmod +x find_string2.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
str="WelcometoJavatpoint"
length=`expr length "$str"`
echo "Length of '$str' is $length"
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./find_string2.sh
Length of 'WelcometoJavatpoint' is 19
root@348b1b94d28058d:~/linux_commands#
```

2. Find String

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch find_string2.sh
root@348b1b94d28058d:~/linux_commands# vi find_string2.sh
root@348b1b94d28058d:~/linux_commands# cp find_string1.sh find_string2.sh
root@348b1b94d28058d:~/linux_commands# vi find_string2.sh
root@348b1b94d28058d:~/linux_commands# chmod +x find_string2.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
str="WelcometoJavatpoint"
length=`expr length "$str"`
echo "Length of '$str' is $length"
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./find_string2.sh
Length of 'WelcometoJavatpoint' is 19
root@348b1b94d28058d:~/linux_commands# -
```

3. Find String

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch find_string3.sh
root@348b1b94d28058d:~/linux_commands# vi find_string3.sh
root@348b1b94d28058d:~/linux_commands# chmod +x find_string3.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
str="WelcometoJavatpoint"
length=`expr length "$str"`
echo "Length of '$str' is $length"
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./find_string3.sh
Length of 'WelcometoJavatpoint' is 19
root@348b1b94d28058d:~/linux_commands# -
```

4. Find String

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch find_string4.sh
root@348b1b94d28058d:~/linux_commands# vi find_string4.sh
root@348b1b94d28058d:~/linux_commands# chmod +x find_string4.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
str="Welcome to Javatpoint"
length=`echo $str | wc -c`
echo "Length of '$str' is $length"
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./find_string4.sh
Length of 'Welcome to Javatpoint' is 22
root@348b1b94d28058d:~/linux_commands#
```

5. Find String

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch find_string5.sh
root@348b1b94d28058d:~/linux_commands# vi find_string5.sh
root@348b1b94d28058d:~/linux_commands# chmod +x find_string5.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
str="Welcome to Javatpoint"
length=`echo $str | awk '{print length}'`
echo "Length of '$str' is $length"
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./find_string5.sh
Length of 'Welcome to Javatpoint' is 21
root@348b1b94d28058d:~/linux_commands#
```

1. Split String

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch split_string1.sh
root@348b1b94d28058d:~/linux_commands# vi split_string1.sh
root@348b1b94d28058d:~/linux_commands# chmod +x split_string1.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
read -p "Enter any string separated by space:" str
IFS=' '
read -ra ADDR<<<"$str"
for i in "${ADDR[@]}";
do
    echo "$i"
done
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./split_string1.sh
Enter any string separated by space:Anu is very beautiful
Anu
is
very
beautiful
root@348b1b94d28058d:~/linux_commands#
```

2. Split String

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch split_string2.sh
root@348b1b94d28058d:~/linux_commands# vi split_string2.sh
root@348b1b94d28058d:~/linux_commands# chmod +x split_string2.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
read -p "Enter name, state and age separated by comma:" entry
IFS=','
read -a strarr<<<"$entry"
echo "Name: ${strarr[0]}"
echo "State: ${strarr[1]}"
echo "Age: ${strarr[2]}"
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./split_string2.sh
Enter name, state and age separated by comma:Anu, Karnataka, 22
Name: Anu
State: Karnataka
Age: 22
root@348b1b94d28058d:~/linux_commands#
```

3. Split String

Step 1:

Create a shell script and open in vi editor

```
94d28058d:~/linux_commands# vi split_string3.sh  
94d28058d:~/linux_commands# chmod +x split_string3.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash  
read -p "Enter any string separated by colon(:)" str  
readarray -d : -t strarr<<<"$str"  
printf "\n"  
for (( n=0; n<${#strarr[*]}; n++ ))  
do  
echo "${strarr[n]}"  
done
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./split_string3.sh  
Enter any string separated by colon(:)Anu: Shree: G: M  
  
Anu  
Shree  
I: G  
C: M  
  
root@348b1b94d28058d:~/linux_commands#
```

4. Split String

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch split_string4.sh
root@348b1b94d28058d:~/linux_commands# vi split_string4.sh
root@348b1b94d28058d:~/linux_commands# chmod +x split_string4.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
str="WeLearnWelcomeLearnYouLearnOnLearnJavatpoint"
delimiter=Learn
s=$str$delimiter
array=()
while [[ $s ]]
do
    array+=(" ${s%%$delimiter}*}");
    s=${s#*$delimiter}";
done;
declare -p array
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./split_string4.sh
declare -a array=([0]="We" [1]="Welcome" [2]="You" [3]="On" [4]="Javatpoint")
root@348b1b94d28058d:~/linux_commands#
```

5. Split String

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch split_string5.sh
root@348b1b94d28058d:~/linux_commands# vi split_string5.sh
root@348b1b94d28058d:~/linux_commands# chmod +x split_string5.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
my_str="We;welcome;you;on;javatpoint."
my_arr=($(echo $my_str | tr ";" "\n"))
for i in "${my_arr[@]}"
do
    echo $i
done
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./split_string5.sh
We
welcome
you
on
javatpoint.
root@348b1b94d28058d:~/linux_commands#
```

1. Sub String

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch substring1.sh
root@348b1b94d28058d:~/linux_commands# vi substring1.sh
root@348b1b94d28058d:~/linux_commands# chmod +x substring1.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
echo "String: We welcome you on javatpoint."
str="We welcome you on javatpoint."
echo "Total characters in a String: ${#str}"
substr="${str:0:10}"
echo "Substring: $substr"
echo "Total characters in substring: ${#substr}"
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./substring1.sh
String: We welcome you on javatpoint.
Total characters in a String: 29
Substring: We welcome
Total characters in substring: 10
root@348b1b94d28058d:~/linux_commands#
```

2. Sub String

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch substring2.sh
root@348b1b94d28058d:~/linux_commands# vi substring2.sh
root@348b1b94d28058d:~/linux_commands# chmod +x substring2.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
str="We welcome you on javatpoint"
substr="${str:11}"
echo "$substr"
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./substring2.sh
you on javatpoint
root@348b1b94d28058d:~/linux_commands#
```

3. Sub String

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch substring3.sh
root@348b1b94d28058d:~/linux_commands# vi substring3.sh
root@348b1b94d28058d:~/linux_commands# chmod +x substring3.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
str="We welcome you on javatpoint"
substr="\${str:11:1}"
echo "$substr"
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./substring3.sh
y
root@348b1b94d28058d:~/linux_commands# -
```

4. Sub String

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch substring4.sh
root@348b1b94d28058d:~/linux_commands# vi substring4.sh
root@348b1b94d28058d:~/linux_commands# chmod +x substring4.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
str="We welcome you on javatpoint."
substr="${str: -11}"
echo "$substr"
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./substring4.sh
javatpoint.
root@348b1b94d28058d:~/linux_commands#
```

1. Concatenate String

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch concatenate.sh
root@348b1b94d28058d:~/linux_commands# vi concatenate.sh
root@348b1b94d28058d:~/linux_commands# chmod +x concatenate.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
str1="We welcome you"
str2=" on javatpoint"
str3="$str1$str2"
echo $str3
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./concatenate.sh
We welcome you on javatpoint
root@348b1b94d28058d:~/linux_commands#
```

2. Concatenate String

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch concatenate2.sh
root@348b1b94d28058d:~/linux_commands# vi concatenate2.sh
root@348b1b94d28058d:~/linux_commands# chmod +x concatenate2.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
str="We welcome you"
echo "$str on javatpoint"
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./concatenate2.sh
We welcome you on javatpoint
root@348b1b94d28058d:~/linux_commands# _
```

3. Concatenate String

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch concatenate3.sh
root@348b1b94d28058d:~/linux_commands# vi concatenate3.sh
root@348b1b94d28058d:~/linux_commands# chmod +x concatenate3.SH
chmod: cannot access 'concatenate3.SH': No such file or directory
root@348b1b94d28058d:~/linux_commands# chmod +x concatenate3.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
echo "Printing the name of the programming language"
lang=""
for value in 'java' 'python' 'c' 'c++';
do
    lang+="$value "
done
echo "$lang"
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./concatenate3.sh
Printing the name of the programming language
java python c c++
root@348b1b94d28058d:~/linux_commands# vi concatenate3.sh
```

4. Concatenate String

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch concatenate4.sh
root@348b1b94d28058d:~/linux_commands# vi concatenate4.sh
root@348b1b94d28058d:~/linux_commands# chmod +x concatenate4.sh
root@348b1b94d28058d:~/linux_commands# ./concatenate4.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
str="Welcome"
printf -v new_str "$str to javatpoint."
echo $new_str
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./concatenate4.sh
welcome to javatpoint.
root@348b1b94d28058d:~/linux_commands# _
```

5. Concatenate String

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch concatenate5.sh
root@348b1b94d28058d:~/linux_commands# vi concatenate5.sh
root@348b1b94d28058d:~/linux_commands# chmod +x concatenate5.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
str="Welcome to"
newstr="${str} Javatpoint."
echo "$newstr"
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./concatenate5.sh
Welcome to Javatpoint.
root@348b1b94d28058d:~/linux_commands#
```

6. Concatenate String

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch concatenate6.sh
root@348b1b94d28058d:~/linux_commands# vi concatenate6.sh
root@348b1b94d28058d:~/linux_commands# chmod +x concatenate6.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
str1="Hello"
str2="World!"
echo "${str1}_${str2}"
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./concatenate6.sh
Hello_World!
root@348b1b94d28058d:~/linux_commands# -
```

7. Concatenate String

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# vi concatenate6.sh
root@348b1b94d28058d:~/linux_commands# touch concatenate7.sh
root@348b1b94d28058d:~/linux_commands# vi concatenate7.sh
root@348b1b94d28058d:~/linux_commands# chmod +x concatenate7.sh
root@348b1b94d28058d:~/linux_commands# ./concatenate7.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
read -p "Enter First name:" name
read -p "Enter state:" state
read -p "Enter Age:" age
combine="$name,$state,$age"
echo "Name, State, Age: $combine"
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./concatenate7.sh
Enter First name:Anu
Enter state:Karnataka
Enter Age:22
Name, State, Age: Anu,Karnataka,22
root@348b1b94d28058d:~/linux_commands#
```

1. Functions

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch function1.sh
root@348b1b94d28058d:~/linux_commands# vi function1.sh
root@348b1b94d28058d:~/linux_commands# chmod +x function1.sh
root@348b1b94d28058d:~/linux_commands# ./function1.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
JTP(){
    echo 'Welcome to Javatpoint'
}
JTP
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./function1.sh
Welcome to Javatpoint
root@348b1b94d28058d:~/linux_commands# -
```

2. Functions

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch function2.sh
root@348b1b94d28058d:~/linux_commands# vi function2.sh
root@348b1b94d28058d:~/linux_commands# chmod +x function2.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
function JTP() {
    echo 'Welcome to Javatpoint'
}
JTP
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./function2.sh
Welcome to Javatpoint
root@348b1b94d28058d:~/linux_commands#
```

3. Functions

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch function3.sh
root@348b1b94d28058d:~/linux_commands# vi function3.sh
root@348b1b94d28058d:~/linux_commands# chmod +x function3.sh
root@348b1b94d28058d:~/linux_commands#
```

Step 2:

Write script in the file.

```
#!/bin/bash
function_arguments()
{
    echo $1
    echo $2
    echo $3
    echo $4
}
function_arguments "I" "am" "good" "girl"
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./function3.sh
I
am
good
girl
root@348b1b94d28058d:~/linux_commands#
```

4. Functions

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# vi function3.sh
root@348b1b94d28058d:~/linux_commands# touch function4.sh
root@348b1b94d28058d:~/linux_commands# vi function4.sh
root@348b1b94d28058d:~/linux_commands# chmod +x function4.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
v1='A'
v2='B'
my_var() {
    local v1='C'
    v2='D'
    echo "Inside Function"
    echo "v1 is $v1."
    echo "v2 is $v2."
}
echo "Before Executing the Funcation"
echo "v1 is $v1"
echo "v2 is $v2"
my_var
echo "After Executing the function"
echo "v1 is $v1"
echo "v2 is $v2"
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./function4.sh
Before Executing the Funcation
v1 is A
v2 is B
Inside Function
v1 is C.
v2 is D.
After Executing the function
v1 is A
v2 is D
root@348b1b94d28058d:~/linux_commands#
```

5. Functions

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch function5.sh
root@348b1b94d28058d:~/linux_commands# vi function5.sh
root@348b1b94d28058d:~/linux_commands# chmod +x function5.sh
root@348b1b94d28058d:~/linux_commands# ./function5.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
print_it() {
    echo Hello $1
    return 5
}
print_it User
print_it Reader
echo The previous function returned a value of $?
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./function5.sh
Hello User
Hello Reader
The previous function returned a value of 5
root@348b1b94d28058d:~/linux_commands#
```

6. Functions

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# vi function6.sh
root@348b1b94d28058d:~/linux_commands# touch function6.sh
root@348b1b94d28058d:~/linux_commands# vi function6.sh
root@348b1b94d28058d:~/linux_commands# chmod +x function6.sh
root@348b1b94d28058d:~/linux_commands# ./function6.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
print_it(){
    local my_greet="Welcome to javatpoint"
    echo "$my_greet"
}
my_greet=$(print_it)
echo $my_greet
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./function6.sh
Welcome to javatpoint
root@348b1b94d28058d:~/linux_commands# -
```

7. Functions

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch function7.sh
root@348b1b94d28058d:~/linux_commands# vi function7.sh
root@348b1b94d28058d:~/linux_commands# chmod +x function7.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
echo() {
    builtin echo -n "$(date +"%m-%d %H:%M:%S"):""
    builtin echo "$1"
}
echo "Welcome to javatpoint"
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./function7.sh
[01-29 12:32:08]:Welcome to javatpoint
root@348b1b94d28058d:~/linux_commands#
```

1. Array

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# vi function.sh
root@348b1b94d28058d:~/linux_commands# touch array1.sh
root@348b1b94d28058d:~/linux_commands# vi array1.sh
root@348b1b94d28058d:~/linux_commands# chmod +x array1.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
declare -a example_array=( "Welcome" "To" " Javatpoint" )
echo ${example_array[2]}

~
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./array1.sh
Javatpoint
root@348b1b94d28058d:~/linux_commands#
```

2. Array

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch array2.sh
root@348b1b94d28058d:~/linux_commands# vi array2.sh
root@348b1b94d28058d:~/linux_commands# cp array1.sh array2.sh
root@348b1b94d28058d:~/linux_commands# vi array2.sh
root@348b1b94d28058d:~/linux_commands# chmod +x array2.sh
root@348b1b94d28058d:~/linux_commands# ./array2.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
declare -a example_array=( "Welcome" "To" " Javatpoint" )
echo ${example_array[@]}
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./array2.sh
Welcome To Javatpoint
root@348b1b94d28058d:~/linux_commands#
```

3. Array

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch array3.sh
root@348b1b94d28058d:~/linux_commands# vi array3.sh
root@348b1b94d28058d:~/linux_commands# chmod +x array3.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
declare -a example_array=( "Welcome" "To" " Javatpoint" )
echo ${!example_array[@]}

^
^
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./array3.sh
0 1 2
root@348b1b94d28058d:~/linux_commands#
```

4. Array

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch array4.sh
root@348b1b94d28058d:~/linux_commands# vi array4.sh
root@348b1b94d28058d:~/linux_commands# chmod +x array4.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
declare -a example_array=( "Welcome" "To" " Javatpoint" )
echo ${example_array[@]}
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./array4.sh
3
root@348b1b94d28058d:~/linux_commands#
```

5. Array

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch array5.sh
root@348b1b94d28058d:~/linux_commands# chmod +x array5.sh
root@348b1b94d28058d:~/linux_commands# ./array5.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
declare -a example_array=( "Welcome" "To" " Javatpoint" )
for i in "${!example_array[@]}"
do
    echo The key value of element "${example_array[$i]}" is "$i"
done
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./array5.sh
The key value of element Welcome is 0
The key value of element To is 1
The key value of element Javatpoint is 2
root@348b1b94d28058d:~/linux_commands#
```

6. Array

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch array5.sh
root@348b1b94d28058d:~/linux_commands# touch array6.sh
root@348b1b94d28058d:~/linux_commands# chmod +x array6.sh
root@348b1b94d28058d:~/linux_commands# ./array6.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
declare -a example_array=( "Welcome" "To" " Javatpoint" )
length=${#example_array[@]}
for (( i=0;i<${length}; i++ ))
do
    echo ${example_array[$i]}
done
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./array6.sh
0 Welcome
1 To
2 Javatpoint
root@348b1b94d28058d:~/linux_commands#
```

7. Array

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# vi array7.sh
root@348b1b94d28058d:~/linux_commands# touch array7.sh
root@348b1b94d28058d:~/linux_commands# chmod +x array7.sh
root@348b1b94d28058d:~/linux_commands# vi array7.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
declare -a example_array=( "Java" "Python" "PHP" "HTML" )
example_array[4]="Javascript"
echo ${example_array[@]}

~
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./array7.sh
Java Python PHP HTML Javascript
root@348b1b94d28058d:~/linux_commands#
```

8. Array

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch array8.sh
root@348b1b94d28058d:~/linux_commands# chmod +x array8.sh
root@348b1b94d28058d:~/linux_commands# cp array7.sh array8.sh
root@348b1b94d28058d:~/linux_commands# vi array8.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
declare -a example_array=( "Java" "Python" "PHP" "HTML" )
example_array+=("Javascript" "CSS" "SQL")
echo ${example_array[@]}
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./array8.sh
Java Python PHP HTML Javascript CSS SQL
root@348b1b94d28058d:~/linux_commands# -
```

9. Array

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch array9.sh
root@348b1b94d28058d:~/linux_commands# chmod +x array9.sh
root@348b1b94d28058d:~/linux_commands# cp array7.sh array9.sh
root@348b1b94d28058d:~/linux_commands# vi array9.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
declare -a example_array=( "We" "Welcome" "you" "to" "SSIT" )
example_array[4] = "Javascript"
echo ${example_array[@]}
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./array9.sh
We Welcome you to Javascript
root@348b1b94d28058d:~/linux_commands#
```

10. Array

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch array10.sh
root@348b1b94d28058d:~/linux_commands# chmod +x array10.sh
root@348b1b94d28058d:~/linux_commands# cp array8.sh array10.sh
root@348b1b94d28058d:~/linux_commands# vi array10.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
declare -a example_array=( "Java" "Python" "PHP" "HTML" "Javascript" )
unset example_array[1]
echo ${example_array[@]}
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./array10.sh
Java PHP HTML Javascript
root@348b1b94d28058d:~/linux_commands#
```

11. Array

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch array11.sh
root@348b1b94d28058d:~/linux_commands# chmod +X array11.sh
root@348b1b94d28058d:~/linux_commands# cp array10.sh array11.sh
root@348b1b94d28058d:~/linux_commands# vi array11.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
declare -a example_array=( "Java" "Python" "PHP" "HTML" "Javascript" )
unset example_array
echo ${example_array[@]}
echo ${!example_array[@]}
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# chmod +X array11.sh
root@348b1b94d28058d:~/linux_commands# ./array11.sh
Java Python PHP HTML Javascript
0 1 2 3 4
```

12. Array

Step 1:

Create a shell script and open in vi editor

```
root@348b1b94d28058d:~/linux_commands# touch array12.sh
root@348b1b94d28058d:~/linux_commands# chmod +x array12.sh
root@348b1b94d28058d:~/linux_commands# cp array11.sh array12.sh
root@348b1b94d28058d:~/linux_commands# vi array12.sh
```

Step 2:

Write script in the file.

```
#!/bin/bash
declare -a example_array=( "Java" "Python" "PHP" "HTML" "Javascript" )
sliced_array=("${example_array[@]:1:3}")
for i in "${sliced_array[@]}"
do
    echo $i
done
```

Step 3:

Run the script and get the output.

```
root@348b1b94d28058d:~/linux_commands# ./array12.sh
Python
PHP
HTML
root@348b1b94d28058d:~/linux_commands# _
```