SWITCHCASE:

CREATING FILE:

```
kirthik@9176994b7e94573:~/assignment$ nano bashcase1.sh
kirthik@9176994b7e94573:~/assignment$ chmod 755 bashcase1.sh
```

SCRIPT:

```
#!/bin/bash

acho "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 javatpoint."

;;

esac
```

```
kirthik@9176994b7e94573:~/assignment$ ./bashcase1.sh
Do you know Java Programming?
Yes/No? :no
It's easy. Let's start learning from javatpoint.
kirthik@9176994b7e94573:~/assignment$ ./bashcase1.sh
Do you know Java Programming?
Yes/No? :yes
That's amazing.
```

```
kirthik@9176994b7e94573:~/assignment$ nano bashcase2.sh
kirthik@9176994b7e94573:~/assignment$ chmod 755 bashcase2.sh
```

SCRIPT:

```
#!/bin/bash
echo "Which Operating System are you using?"
echo "Windows, Android, Chrome, Linux, Others?"
ead -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. It has lots of applications."
echo
Chrome chrome)
echo "Cool!!! It's for pro users. Amazing Choice."
echo
Linux linux)
echo "You might be serious about security!!"
echo
echo "Sounds interesting. I will try that."
echo
esac
```

```
kirthik@9176994b7e94573:~/assignment$ ./bashcase2.sh
Which Operating System are you using?
Windows, Android, Chrome, Linux, Others?
Type your OS Name:Android
This is my favorite. It has lots of applications.

kirthik@9176994b7e94573:~/assignment$ ./bashcase2.sh
Which Operating System are you using?
Windows, Android, Chrome, Linux, Others?
Type your OS Name:chrome
Cool!!! It's for pro users. Amazing Choice.

kirthik@9176994b7e94573:~/assignment$ ./bashcase2.sh
Which Operating System are you using?
Windows, Android, Chrome, Linux, Others?
Type your OS Name:Windows
That's common. You should try something new.
```

FOR LOOP:

CREATING FILE:

```
kirthik@9176994b7e94573:~/assignment/forloop$ nano forloop1.sh
kirthik@9176994b7e94573:~/assignment/forloop$ chmod +x forloop1.sh
kirthik@9176994b7e94573:~/assignment/forloop$ /forloop1.sh
```

SCRIPT:

```
#!/bin/bash
#This is the basic example of 'for loop'.

learn="Start learning from Javatpoint."
for learn in $learn
do
echo $learn
done
echo "Thank You."
```

```
kirthik@9176994b7e94573:~/assignment/forloop$ ./forloop1.sh

Start

learning

from

Javatpoint.

Thank You.
```

```
kirthik@9176994b7e94573:~/assignment/forloop$ nano forloop2.sh
kirthik@9176994b7e94573:~/assignment/forloop$ chmod +x forloop2.sh
```

SCRIPT:

```
#!/bin/bash
#For Loop to Read a Range with Decrement
for num in {10..0..1}
do
echo $num
done
```

```
kirthik@9176994b7e94573:~/assignment/forloop$ ./forloop2.sh

9

8

7

6

5

4

3

2

1

0

kirthik@9176994b7e94573:~/assignment/forloop$
```

```
kirthik@9176994b7\\94573:~/assignment/forloop$ nano forloop3.sh
kirthik@9176994b7e94573:~/assignment/forloop$ chmod +x forloop3.sh
```

SCRIPT:

```
kirthik@9176994b7e94573:~/assignment/forloop$ ./forloop3.sh

4

6

8

10

12

14

16

18

20

kirthik@9176994b7e94573:~/assignment/forloop$
```

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

```
kirthik@9176994b7e94573:~/assignment/forloop$ nano forloop4.sh
kirthik@9176994b7e94573:~/assignment/forloop$ chmod +x forloop4.sh
```

SCRIPT:

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

```
irthik@9176994b7e94573:~/assignment/forloop$ ./forloop4.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
Current Number: 19
Current Number: 20
Current Number: 21
Current Number: 22
Current Number: 23
Current Number: 24
Current Number: 25
Current Number: 26
Current Number: 27
Current Number: 28
Current Number: 29
Current Number: 30
Current Number: 31
Current Number: 32
Current Number: 33
Current Number: 34
Current Number: 35
Current Number: 36
Current Number: 37
Current Number: 38
```

```
kirthik@9176994b7e94573:~/assignment/forloop$ nano forloop5.sh
kirthik@9176994b7e94573:~/assignment/forloop$ chmod +x forloop5.sh
```

SCRIPT:

```
#!/bin/bash
#Numbers from 1 to 20, ignoring from 6 to 15 using continue statement"
for ((i=1; i<=20; i++));
    do
    if [[ $i -gt 5 && $i -lt 16 ]];
    then
    continue
    fi
    echo $i
    done</pre>
```

```
kirthik@9176994b7e94573:~/assignment/forloop$ ./forloop5.sh

2
3
4
5
16
17
18
19
20
```

DO WHILE LOOP

CREATING FILE:

```
kirthik@9176994b7e94573:~/assignment/forloop$ nano whileloop.sh
kirthik@9176994b7e94573:~/assignment/forloop$ chmod +x whileloop.sh
kirthik@9176994b7e94573:~/assignment/forloop$ ./whileloop.sh
```

SCRIPT:

```
#!/bin/bash
#Script to get specified numbers

read -p "Enter starting number: " snum
read -p "Enter ending number: " enum
while [[ $snum -le $enum ]];
do
echo $snum
((snum++))
done
echo "This is the sequence that you wanted."
```

```
kirthik@9176994b7e94573:~/assignment/forloop$ ./whileloop.sh
Enter starting number: 1
Enter ending number: 3

1

2

3
This is the sequence that you wanted.
kirthik@9176994b7e94573:~/assignment/forloop$ ./whileloop.sh
Enter starting number: 5
Enter ending number: 3
This is the sequence that you wanted.
kirthik@9176994b7e94573:~/assignment/forloop$ ./whileloop.sh
```

WHILELOOP

CREATING FILE:

```
kirthik@9176994b7e94573:~/assignment/forloop$ nano whileloop1.sh
kirthik@9176994b7e94573:~/assignment/forloop$ chmod +x whileloop1.sh
```

SCRIPT:

```
#!/bin/bash
#Script to get specified numbers
read -p "Enter starting number: " snum
  read -p "Enter ending number: " enum

while [[ $snum -lt $enum || $snum == $enum ]];
do
  echo $snum
  ((snum++))
  done
  echo "This is the sequence that you wanted."
```

```
kirthik@9176994b7e94573:~/assignment/forloop$ ./whileloop1.sh
Enter starting number: 1
Enter ending number: 8

1
2
3
4
5
6
7
8
This is the sequence that you wanted.
```

```
kirthik@9176994b7e94573:~/assignment/forloop$ nano whileloop2.sh
kirthik@9176994b7e94573:~/assignment/forloop$ chmod +x whileloop2.sh
```

SCRIPT:

```
#!/bin/bash
#An infinite while loop
while :
  do
echo "Welcome to Javatpoint."
done
```

```
Welcome to Javatpoint.
```

```
kirthik@9176994b7e94573:~/assignment/forloop$ nano whileloop3.sh
kirthik@9176994b7e94573:~/assignment/forloop$ chmod +x whileloop3.sh
```

SCRIPT:

```
#!/bin/bash
#While Loop Example with a Break Statement
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
```

```
kirthik@9176994b7e94573:~/assignment/forloop$ ./whileloop3.sh
Countdown for Website Launching...

10
9
8
7
6
5
4
3
Mission Aborted, Some Technical Error Found.
kirthik@9176994b7e94573:~/assignment/forloop$
```

```
kirthik@9176994b7e94573:~/assignment/forloop$ nano whileloop4.sh
kirthik@9176994b7e94573:~/assignment/forloop$ chmod +x whileloop4.sh
kirthik@9176994b7e94573:~/assignment/forloop$ ./whileloop4.sh
```

SCRIPT:

```
#!/bin/bash
#While Loop Example with a Continue Statement
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."
```

```
kirthik@9176994b7e94573:~/assignment/forloop$ ./whileloop4.sh

Current Number : 1

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.
```

```
kirthik@9176994b7e94573:~/assignment/forloop$ nano whileloop5.sh
kirthik@9176994b7e94573:~/assignment/forloop$ chmod +x whileloop5.sh
kirthik@9176994b7e94573:~/assignment/forloop$ /whileloop5.sh
```

SCRIPT:

```
#!/bin/bash
#While loop example in C style
i=1
while((i <= 10))
do
echo $i
let i++
done
```

```
kirthik@9176994b7e94573:~/assignment/forloop$ ./whileloop5.sh
1
2
3
4
5
6
7
8
9
```

UNTIL

CREATING FILE:

```
kirthik@9176994b7e94573:~/assignment/forloop$ nano until1.sh
kirthik@917b994b7e94573:~/assignment/forloop$ chmod +x until1.sh
```

SCRIPT:

```
#!/bin/bash
#Bash Until Loop example with a single condition

i=1
until [ $i -gt 10 ]
do
echo $i
(i++))
done
```

```
ki/thik@9176994b7e94573:~/assignment/forloop$ ./until1.sh

2
3
4
5
6
7
8
9
10
```

```
kirthik@9176994b7e94573:~/assignment/forloop$ nano until2.sh
kirthik@9176994b7e94573:~/assignment/forloop$ chmod +x until2.sh
```

SCRIPT:

```
#!/bin/bash

#Bash Until Loop example with multiple conditions

max=5

a=1

b=0

until [[ $a -gt $max || $b -gt $max ]];

do

echo "a = $a & b = $b."

((a++))
((b++))
done
```

```
kirthik@9176994b7e94573:~/assignment/forloop$ ./until2.sh
a = 1 & b = 0.
a = 2 & b = 1.
a = 3 & b = 2.
a = 4 & b = 3.
a = 5 & b = 4.
```

STRING:

CREATING FILE:

```
kirthik@9176994b7e94573:~/assignment/forloop$ nano string1.sh
kirthik@9176994b7e94573:~/assignment/forloop$ chmod +x string1.sh
kirthik@9176994b7e94573:~/assignment/forloop$ /string1.sh
```

SCRIPT:

```
#!/bin/bash
#Script to check whether two strings are equal.
str1="WelcometoJavatpoint."
str2="javatpoint"

if [ $str1 = $str2 ];
then
echo "Both the strings are equal."
else
echo "Strings are not equal."
fi
```

```
kirthik@9176994b7e94573:~/assignment/forloop$ ./string1.sh
Strings are not equal.
```

```
kirthik@9176994b7e94573:~/assignment/forloop$ nano string2.sh
kirthik@9176994b7e94573:~/assignment/forloop$ chmod +x string2.sh
```

SCRIPT:

```
str1="WelcometoJavatpoint."
str2="javatpoint"
if [[ $str1 != $str2 ]];
then
echo "Strings are not equal."
else
echo "Strings are equal."
fi
```

```
kirthik@9176994b7e94573:~/assignment/forloop$ ./string2.sh
Strings are not equal.
```

```
kirthik@9176994b7e94573:~/assignment/forloop$ nano string3.sh
kirthik@9176994b7e94573:~/assignment/forloop$ chmod +x string3.sh
```

SCRIPT:

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

OUTPUT:

kirthik@9176994b7e94573:~/assignment/forloop\$./string3.sh WelcometoJavatpoint is not less then Javatpoint

```
kirthik@9176994b7e94573:~/assignment/forloop$ nano string4.sh
kirthik@9176994b7e94573:~/assignment/forloop$ chmod +x string4.sh
kirthik@9176994b7e94573:~/assignment/forloop$ /string4.sh
```

SCRIPT:

```
#!/bin/sh
str1="WelcometoJavatpoint"
str2="Javatpoint"

if [ $str1 \> $str2 ];
then
echo "$str1 is greater then $str2"
else
echo "$str1 is less then $str2"
fi
```

```
kirthik@9176994b7e94573:~/assignment/forloop$ ./string4.sh
WelcometoJavatpoint is greater then Javatpoint
```

```
kirthik@9176994b7e94573:~/assignment/forloop$ nano string5.sh
kirthik@9176994b7e94573:~/assignment/forloop$ chmod +x string5.sh
kirthik@9176994b7e94573:~/assignment/forloop$ ./string5.sh
```

SCRIPT:

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

```
kirthik@9176994b7e94573:~/assignment/forloop$ ./string5.sh
String is not empty
```

```
kirthik@9176994b7e94573:~/assignment/forloop$ nano string6.sh
kirthik@9176994b7e94573:~/assignment/forloop$ chmod +x string6.sh
```

SCRIPT:

```
#!/bin/sh
str=""
if [ -z $str ];
then
echo "String is empty."
else
echo "String is non-empty."
```

```
kirthik@9176994b7e94573:~/assignment/forloop$ ./string6.sh
String is empty.
```

STRINGLENGTH:

CREATING FILE:

```
kirthik@9176994b7e94573:~/assignment/forloop$ nano stringlength.sh
kirthik@9176994b7e94573:~/assignment/forloop$ chmod +x stringlength.sh
```

SCRIPT:

```
#!/bin/bash
#Bash program to find the length of a string

str="Welcome to Javatpoint"

length=${#str}

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

```
kirthik@9176994b7e94573:~/assignment/forloop$ ./stringlength.sh
Length of 'Welcome to Javatpoint' is 21
```

```
kirthik@9176994b7e94573:~/assignment/forloop$ nano stringlength2.sh
kirthik@91\6994b7e94573:~/assignment/forloop$ chmod +x stringlength2.sh
```

SCRIPT:

```
#!/bin/bash

#Bash script to find the length of a string

str="Welcome to Javatpoint"
length=`expr length "$str"

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

```
kirthik@9176994b7e94573:~/assignment/forloop$ ./stringlength2.sh
Length of 'Welcome to Javatpoint' is 21

kirthik@9176994b7e94573:~/assignment/forloop$
```

```
kirthik@9176994b7e94573:~/assignment/forloop$ nano stringlength3.sh
kirthik@9176994b7e94573:~/assignment/forloop$ chmod +x stringlength3.sh
```

SCRIPT:

```
#!/bin/bash
#Bash script to find the length of a string
str="Welcome to Javatpoint"
length=`expr "$str" : '.*'`
echo "Length of '$str' is $length"
```

```
kirthik@9176994b7e94573:~/assignment/forloop$ ./stringlength3.sh
Length of 'Welcome to Javatpoint' is 21
kirthik@9176994b7e94573:~/assignment/forloop$
```

```
kirthik@9176994b7e94573:~/assignment/forloop$ nano stringlength4.sh
kirthik@9176994b7e94573:~/assignment/forloop$ nano stringlength4.sh
kirthik@9176994b7e94573:~/assignment/forloop$ chmod +x stringlength4.sh
```

SCRIPT:

```
#!/bin/bash
#Bash script to find the length of a string

str="Welcome to Javatpoint"
length=`echo $str | wc -c`

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

```
kirthik@9176994b7e94573:~/assignment/forloop$ ./stringlength4.sh
Length of 'Welcome to Javatpoint' is 22
```

```
kirthik@9176994b7e94573:~/assignment/forloop$ nano stringlength5.sh
kirthik@9176994b7e94573:~/assignment/forloop$ chmod +x stringlength5.sh
```

SCRIPT:

```
**!/bin/bash
#Bash script to find the length of a string

str="Welcome to Javatpoint"

length=`echo $str | awk '{print length}'`

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

```
kirthik@9176994b7e94573:~/assignment/forloop$ ./stringlength5.sh
Length of 'Welcome to Javatpoint' is 21
kirthik@9176994b7e94573:~/assignment/forloop$
```

STRINGSPLIT:

CREATING FILE:

```
kirthik@9176994b7e94573:~/assignment/forloop$ nano stringsplit3.sh
kirthik@9176994b7e94573:~/assignment/forloop$ chmod +x stringsplit3.sh
kirthik@9176994b7e94573:~/assignment/forloop$ ./stringsplit3.sh
```

SCRIPT:

```
#!/bin/bash
#Example for bash split string without $IFS

read -p "Enter any string separated by colon(:) " str #reading string value readarray -d : -t strarr <<<"$str" #split a string based on the delimiter ':' printf "\n"
#Print each value of Array with the help of loop for (( n=0; n < ${#strarr[*]}; n++ )) do echo "${strarr[n]}" done
```

```
kirthik@9176994b7e94573:~/assignment/forloop$ ./stringsplit3.sh
Enter any string separated by colon(:) kirthik:subbiah:p
kirthik
'subbiah
p
```

```
kirthik@9176994b7e94573:~/assignment/forloop$ nano stringsplit4.sh
kirthik@9176994b7e9$\$773:~/assignment/forloop$ chmod +x stringsplit4.sh
```

SCRIPT:

```
#!/bin/bash
#Example for bash split string by another string

str="WeLearnWelcomeLearnYouLearnOnLearnJavatpoint"
delimiter=Learn
s=$str$delimiter
array=();
while [[ $s ]];

do
array+=( "${s%%"$delimiter"*}" );
s=${s#*"$delimiter"};
done;
declare -p array
```

```
kirthik@9176994b7e94573:~$ ./stringsplit4.sh
declare -a array=([0]="We" [1]="Welcome" [2]="You" [3]="On" [4]="Javatpoint")
kinthik@9176994b7e94573:~$
```

```
iry tr --neip for more information.
irthik@9176994b7e94573:~$ nano stringsplit5.sh
kirthik@9176994b7e94573:~$ chmod +x stringsplit5.sh
```

SCRIPT:

```
#!/bin/bash
#Example to split a string using trim (tr) command
my_str="We;welcome;you;on;javatpoint."
my_arr=($(echo $my_str | tr ";""\n"))
for i in "${my_arr[@]}"

do
echo $i
done_
```

```
We
welcome
you
on
javatpoint.
harish129⋒66c459cb7f2a51a:~/practise/split-string%
```

SUBSTRINGS:

CREATING FILE:

```
kirthik@9176994b7e94573:~/assignment/forloop$ nano substring1.sh
kirthik@9176994b7e94573:~/assignment/forloop$ chmod +x substring1.sh
```

SCRIPT:

```
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} "
```

```
kirthik@9176994b7e94573:~/assignment/forloop$ ./substring1.sh
String: We welcome you on Javatpoint.
Potal characters in a String: 29
Substring: We welcome
Total characters in Substring: 10
kirthik@9176994b7e94573:~/assignment/forloop$ _
```

```
kirthik@9176994b7e94573:~$ nano substring2.sh
kirthik@9176994b7e94573:~$ chmod +x substring2.sh
```

SCRIPT:

```
#!/bin/bash

#Script to print from 11th character onwards

str="We'welcome you on Javatpoint."

substr="${str:11}"

echo "$substr"
```

```
kirthik@9176994b7e94573:~$ ./substring2.sh
you on Javatpoint.
kinthik@0176004b7o04573:~$
```

```
kirthik@9176994b7e94573:~$ nano substring3.sh
kirthik@9176994b7e94573:~$ chmod +x substring3.sh
```

SCRIPT:

```
#!/bin/bash
#Script to print 11th character of a String
str="We welcome you on Javatpoint."
Substr="${str:11:1}"
echo "$substr"_
```

```
kirthik@9176994b7e94573:~$ ./substring3.sh

y

kirthik@9176994b7e94573:~$
```

```
irthik@9176994b7e94573:~$ nano substring4.sh
kirthik@9176994b7e94573:~$ chmod +x substring4.sh
kirthik@9176994b7e94573:~$ ./substring4.sh
```

SCRIPT:

```
#!/bin/bash
Script to extract 11 characters from last
str="We welcome you on Javatpoint."
substr="${str:(-11)}"
echo "$substr"
```

```
kirthik@9176994b7e94573:~$ ./substring4.sh
Javatpoint.
```

CONCATENATE

CREATING FILE:

```
kirthik@9176994b7e94573:~$ nano concatenate.sh
kirthik@9176994b7e94573:~$ chmod +x concatenate.sh
```

SCRIPT:

```
#!/bin/bash
#Script to Concatenate Strings
#Declaring the first String
str1="We welcome you"
#Declaring the Second String
str2=" on Javatpoint."
#Combining first and second string
str3="$str1$str2"
#Printing a new string by combining both
echo $str3
```

```
kirthik@9176994b7e94573:~$ ./concatenate.sh
We welcome you on Javatpoint.
```

```
kirthik@9176994b7e94573:~$ nano concatenate2.sh
kirthik@9176994b7e94573:~$ chmod +x concatenate2.sh
```

SCRIPT:

```
#!/bin/bash
#Script to Concatenate Strings
#Declaring String Variable
str="We welcome you"
#Add the variable within the string
echo "$str on Javatpoint."
```

```
kirthik@9176994b7e94573:~$ ./concatenate2.sh
We welcome you on Javatpoint.
```

```
kirthik@9176994b7e94573:~$ nano concatenate3.sh
kirthik@9176994b7e94573:~$ chmod +x concatenate3.sh
```

SCRIPT:

```
#!/bin/bash
echo "Printing the name of the programming languages"
#Initializing the variable before combining
lang=""
#for loop for reading the list
for value in 'java''python''C''C++';
do
lang+="$value " #Combining the list values using append operator
done
#Printing the combined values
echo "$lang"
```

```
Printing the name of the programming languages
javapythonCC++
kinthik@9176994b7e94573:es
```

```
kirthik@9176994b7e94573:~$ nano concatenate4.sh
kirthik@9176994b7e94573:~$ chmod +x concatenate4.sh
```

SCRIPT:

```
#!/bin/bash
#String Concatenation by Character (,) with User Input
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"_
```

```
kirthik@9176994b7e94573:~$ ./concatenate4.sh
Enter First Name: kirthik
Enter State: tamilnadu
Enter Age: 21
Name, State, Age: kirthik,tamilnadu,21
```

FUNCTIONS:

CREATING FILE:

```
kirthik@9176994b7e94573:~$ nano function1.sh
kirthik@9176994b7e94573:~$ chmod +x function1.sh
kirthik@9176994b7e94573:~$ ./function1.sh
```

SCRIPT:

```
#!/bin/bash

JTP ( {
echo 'Welcome to Javatpoint.'
}

JTP
```

```
kirthik@9176994b7e94573:~$ ./function1.sh
Welcome to Javatpoint.
```

```
kirthik@9176994b7e94573:~$ nano function2.sh
kirthik@9176994b7e94573:~$ chmod +x function2.sh
```

SCRIPT:

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

```
kirthik@9176994b7e94573:~$ ./function2.sh
Welcome to Javatpoint.
```

```
kirthik@9176994b7e94573:~$ nano function3.sh
kirt ki@9176994b7e94573:~$ chmod +x function3.sh
kirthik@9176994b7e94573:~$ ./function3.sh
```

SCRIPT:

```
#!/bin/bash
#Script to pass and access arguments
function_arguments()
{
ech  $1
echo $2
echo $3
echo $4
echo $5
}
#Calling function_arguments
function_arguments "We""welcome""you""on""Javatpoint."
```

```
kirthik@9176994b7e94573:~$ ./function3.sh
WewelcomeyouonJavatpoint.
```

```
cirthik@9176994b7e94573:~$ nano function4.sh
cirthik@9176994b7e94573:~$ chmod +x function4.sh
cirthik@9176994b7e94573:~$ chmod +x function4.sh
```

SCRIPT:

```
GNU nano 7.2
f#!/bin/bash
v1='A'
۷24'B'
my_var () {
local v1='C'
v2='D'
echo "Inside Function"
echo "v1 is $v1."
echo "v2 is $v2."
echo "Before Executing the Function"
echo "v1 is $v1."
echo "v2 is $v2."
my_var
echo "After Executing the Function"
echo "v1 is $v1."
echo "v2 is $v2."
```

OUTPUT:

```
kirthik@9176994b7e94573:~$ ./function4.sh

Before Executing the Function

v1 is A.

v2 is B.

Inside Function

v1 is C.

v2 is D.

After Executing the Function

v1 is A.

v2 is D.
```

CREATING FILE:

```
kirthik@9176994b7e94573:~$ nano function5.sh
kirthik@9176994b7e94573:~$ chmod +x function5.sh
```

SCRIPT:

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

```
Kirthik@9176994b7e94573:~$ ./function5.sh
Hello User
Hello Reader
The previous function returned a value of 5
```

```
kirthik@9176994b7e94573:~$ nano tunction5.sh
kirthik@9176994b7e94573:~$ nano function6.sh
kirthik@9176994b7e94573:~$ chmod +x function6.sh
```

SCRIPT:

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

my_greet="$(print_it)"
echo $my_greet
```

```
kirthik@9176994b7e94573:~$ ./function6.sh
Welcome to Javatpoint.
kirthik@9176994b7e94573:~$
```

```
kercome to Javatpoint.
kirthik@9176994b7e94573:~$ nano function7.sh
kirthik@9176994b7e94573:~$ chmod +x function7.sh
kirthik@9176994b7e94573:~$ /function7.sh
```

SCRIPT:

```
#Script to override command using function

echo () {
builtin echo -n `date +"[%m-%d %H:%M:%S]"` ": "
builtin echo $1
}
echo "Welcome to Javatpoint."
```

```
kirthik@9176994b7e94573:~$ chmou +X function7.
kirthik@9176994b7e94573:~$ ./function7.sh
[01-30 06:41:42] : Welcome to Javatpoint.
```

ARRAY:

CREATING FILE:

```
kirthik@9176994b7e94573:~$ ./array1.sh
Javatpoint
```

SCRIPT:

```
#!/bin/bash
#Script to print an element of an array with an index of 2
#declaring the array
declare -a example_array=( "Welcome" "To" "Javatpoint" )
#printing the element with index of 2
echo ${example_array[2]}
```

```
kirthik@9176994b7e94573:~$ nano array1.sh
kirthik@9176994b7e94573:~$ chmod +x array1.sh
```

```
kirthik@9176994b7e94573:~$ nano array2.sh
kirthik@9176994b7e94573:~$ chmod +x array2.sh
```

SCRIPT:

```
#!/bin/bash
#Script to print all the elements of the array
#declaring the array
declare -a example_array=( "Welcome" "To" "Javatpoint" )
#Printing all the elements
echo "${example_array[@]}"
```

```
kirthik@9176994b7e94573:~$ ./array2.sh
Welcome To Javatpoint
```

```
krthik@9176994b7e94573:~$ nano array3.sh
kirthik@9176994b7e94573:~$ chmod +x array3.sh
```

SCRIPT:

```
#!/bin/bash
#Script to print the keys of the array
#Declaring the Array
declare -a example_array=( "Welcome" "To" "Javatpoint" )
#Printing the Keys
echo "${!example_array[@]}"
```

```
Mirthik@9176994b7e94573:~$ chillou +X arrays.
kirthik@9176994b7e94573:~$ ./array3.sh
0 1 2
kirthik@9176994b7e94573:~$
```

```
kirthik@9176994b7e94573:~$ nano array4.sh
kirthik@9176994b7e94573:~$ chmod +x array4.sh
```

SCRIPT:

```
#!/bin/bash
#Declaring the Array
declared a example_array=( "Welcome""To""Javatpoint" )
#Printing Array Length
echo "The array contains ${#example_array[@]} elements"
```

```
kirthik@9176994b7e94573:~$ chmod +x array4.sh
kirthik@9176994b7e94573:~$ ./array4.sh
The array contains 1 elements
```

```
kirthik@9176994b7e94573:~$ nano array5.sh
kirthik@9176994b7e94573:~$ chmod +x array5.sh
```

SCRIPT:

```
#!/bin/bash
#Script to print all keys and values using loop through the array
declare -a example_array=( "Welcome""To""Javatpoint" )
#Array Loop
for i in "${!example_array[@]}"
do
echo The key value of element "${example_array[$i]}" is "$i"
done
```

```
kirthik@9176994b7e94573:~$ ./array5.sh
The key value of element WelcomeToJavatpoint is 0
```

```
kirthik@9176994b7e94573:~$ nano array6.sh
kirthik@9176994b7e94573:~$ chmod +x array6.sh
kirthik@9176994b7e94573:~$ ./array6.sh
```

SCRIPT:

```
#!/bin/bash
#Script to loop through an array in C-style
declare -a example_array=( "Welcome""To""Javatpoint" )
#Length of the Array
length=${#example_array[@]}
#Array Loop
for (( i=0; i < ${length}; i++ ))

do
echo $i ${example_array[$i]}
done</pre>
```

```
⇔irthik@9176994b7e94573:~$ ./array6.sh
0 WelcomeToJavatpoint
```

```
kirthik@9176994b7e94573:~$ nano array7.sh
kirthik@9176994b7e94573:~$ chmod +x array7.sh
kirthik@9176994b7e94573:~$ ./array7.sh
```

SCRIPT:

```
#!/bin/bash

#Declaring an array

declare -a example_array=( "Java""Python""PHP""HTML" )

#Adding new element

example_array[4]="JavaScript"

#Printing all the elements

echo "${example_array[@]}"
```

```
kirthik@9176994b7e94573:~$ ./array7.sh
JavaPythonPHPHTML JavaScript
```

```
kirthik@9176994b7e94573:~$ nano array8.sh
kirthik@9176994b7e94573:~$ chmod +x array8.sh
```

SCRIPT:

```
#!/bin/bash

#Declaring the Array
declare -a example_array=( "Java""Python""PHP" )

#Adding new elements
example_array+=( JavaScript CSS SQL )

#Printing all the elements
echo "${example_array[@]}"
```

```
Kirthik@9176994b7e94573:~$ chmod +x arr
k≹rthik@9176994b7e94573:~$ ./array8.sh
JavaPythonPHP JavaScript CSS SQL
kirthik@9176994b7e94573:~$ nano array9
```

```
kirthik@9176994b7e94573:~$ nano array9.sh
kirthik@9176994b7e94573:~$ chmod +x array9.sh
```

SCRIPT:

```
#!/bin/bash
#Script to update array element
#Declaring the array
declare -a example_array=( "We""welcome""you""on""SSSIT" )
#Updating the Array Element
example_array[4]=Javatpoint
#Printig all the elements of the Array
echo ${example_array[@]}
```

```
kirthik@9176994b7e94573:~$ ./array9.sh
WewelcomeyouonSSSIT Javatpoint
```