**Explain Function in Linux**

**Make a fun.sh (shell file)**

#! /bin/bash

**#Declaring function using the reserved keyboard function**

**#Multiple function**

* **Input**

: 'function f1 {

echo "Hello i am function "

echo "Bye"

}

f1

'

* **Output**

Hello I am function

Bye

**#single line**

* **Input**

: 'function f2 { echo "welcome to this world" ; echo "How are you" ; }

f2

'

* **Output**

Welcome to this world

How are you

**#without function keyboard**

* **Input**

: 'Hello () {

echo "Hello welcome to NSTI"

}

Hello

'

* **Output**

Hello welcome to NSTI

* **Input**

: 'Hello () { echo "Hello welcome to NSTI" ; }

Hello

'

* **Output**

**#Passing a string Argument to a function**

* **Input**

: 'Hello () {

echo "Hello $1"

}

Hello "PGLU"

'

* **Output**

Hello PGLU

* **Input**

: 'Hello () {

echo "Hello $1"

echo "Hello $2"

}

Hello "PGLU" "GMR"

'

* **Output**

Hello PGLU

Hello GMR

* **Input**

: 'Hello () {

echo "Hello $1"

echo "$2"

}

Hello "PGLU" "GMR"

'

* **Output**

Hello PGLU

GMR

**#Passing an Integer Arguments to a function for addition**.

* **Input**

: 'Sum () {

add=$(($1+$2))

echo "The Sum of $1 and $2 is $add"

}

Sum 220 20

* **Output**

The sum of 220 and 20 is 240

* **Input**

: ‘Sum () {

add=$(($1+$2))

echo "The sum of $1 and $2 is $add"

}

Sum 50 500

‘

* **Output**

The sum of 50 and 500 is 550

* **Input**

: ‘Multiplication () {

multiplication=$(($1\*$2))

echo "The multiplication of $1 and $2 is $multiplication"

}

Multiplication 5 7

‘

* **Output**

The multiplication of 5 and 7 is 35

: ‘Division () {

division=$(($1/$2))

echo "The division of $1 and $2 is $division"

}

Division 10 2

'

* **Output**

The division of 10 and 2 is 5

* **Input**

: 'f3 () {

if [ $1 -ge 50 ]

then

echo "$1 is larger"

else

echo "$1 is smaller"

fi

}

f3 14

'

* **Output**

14 is smaller

* **Input**

: ‘f4 () {

for i in 1 2 3 4 5

do

echo "Welcome to $i times"

done

}

f4

‘

* **Output**

Welcome to 1 time

Welcome to 2 time

Welcome to 3 time

Welcome to 4 time

Welcome to 5 time

* **Input**

: ‘f5 () {

for i in {1..10}

do

echo "Welcome to $i times"

done

}

f5

‘

* **Output**

Welcome to 1 times

Welcome to 2 times

Welcome to 3 times

Welcome to 4 times

Welcome to 5 times

Welcome to 6 times

Welcome to 7 times

Welcome to 8 times

Welcome to 9 times

Welcome to 10 times