

## 5th part

### functions

main.sh

# function declaration

function myfunc() {

echo "Hi"

echo "bye"

}

# function calling

myfun

o/p ./main.sh

Hi

bye

### function with parameter

main.sh

function newfun() {

echo "Hello \$1"

}

→ takes I/p from  
function calling

newfun "Hema"

o/p ./main.sh

Hello Hema

```
Function func() {
```

```
    echo "Hello $1"
```

```
    echo "Hello $2"
```

```
    echo "Hello $3"
```

} take 3 Ip parameters  
from function  
calling

```
}
```

```
fun "Hema" "Hemaa" "Hems"
```

O/p ./main.sh

~~function~~

Hello Hema

Hello Hemaa

Hello Hems

Function that tells user Ip is empty or not

```
function func() {
```

```
    if [ -z "$1" ]; then
```

```
        echo "Hello world"
```

```
    else
```

```
        echo "Hello $1"
```

```
    fi
```

```
}
```

~~no func~~

[ -z checks  
for empty  
string ]

func "Hi"

O/p

Hello Hi

fun

O/p

Hello world

Function calling (2 functions with same function name)

function myfunc()

{  
echo "1st fun"

}  
myfunc()

function myfunc()

{  
echo "2nd fun"

}  
myfunc()

O/p ./main.sh

1st fun

2nd fun

## local and global variable

main.sh

```
function myfun() {
```

```
    local Name=$1    # Local Variable
```

```
    echo "Hello world $Name"
```

```
}
```

```
Name="mithran"    # Global Variable
```

```
echo "Before fun call $Name"
```

```
myfun "Anu"
```

```
echo "After fun call $Name"
```

O/p ./main.sh

Before fun call mithran

Hello world Anu

After fun call mithran

Incase If you don't use local variable in function.

Before fun call mithran

Hello world Anu

After fun call Anu

local and global variable comes in to picture when same variable is used inside and outside a function.

Command line arguments

main.sh

echo "File name → \$0"

echo "CLA are \$1"

echo "CLA are \$2"

echo "CLA are \$@"

o/p ./main.sh Mithran Hello

File name ./main.sh

CLA are ~~Hello~~ Mithran

CLA are Hello

CLA are Mithran Hello

Write a program to find greatest

among 2 nos passed in CLA

```

function GFTNC {
    if [ $1 -gt $2 ]; then
        return $1
    else
        return $2
    fi
}

```

Num1 = \$1

Num2 = \$2

GFTN \$Num1 \$Num2

RESULT = \$? → stores the exit status  
 echo "The greatest number is :\$RESULT"

### Default Assignment

```

function myfunc {
    echo "Name is $1:- "Anu"}
}

```

myfun

O/p

Name is Anu

my fun hema

O/P Name is hema

## Read only Variable

VARI=10

readonly VARI

The above variable can't be edited further.

## Debugging mode

bash -x main.sh → shows the debugged format

To debug a particular part

≡ } code

set ~~xxx~~ -x

≡ } code

set ~~xxx~~ +x

≡ } code

O/P ./main.sh (no need to use bash command as we have used set -x and set +x)