## **Bash Module 5**

## Gokula Madhavan B

## **Sri Sairam Engineering college**

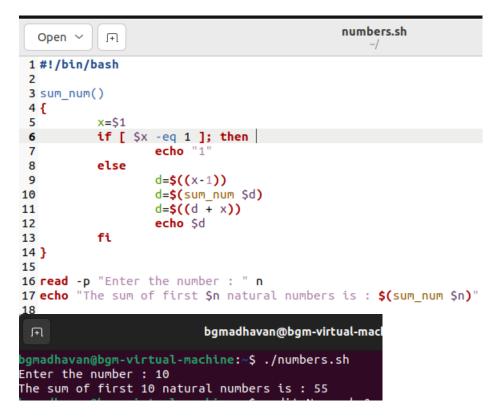
Advance topics in a function

1) Write a function add to add two numbers and call the function in another file.

```
details.sh
  Open ~
                     details.sh
1#!/bin/bash
3 add()
4 {
5
          echo "The sum of two numbers $1 and $2 is : $(($1 + $2))"
6 }
                   details.sh
                                                                 bgfunc.sh
1#!/bin/bash
3 source details.sh
5 add 65 72
6
                           bgmadhavan@bgm-virtua
  F1
bgmadhavan@bgm-virtual-machine:~$ ./bgfunc.sh
The sum of two numbers 65 and 72 is: 137
bgmadhavan@bgm-virtual-machine:~$
```

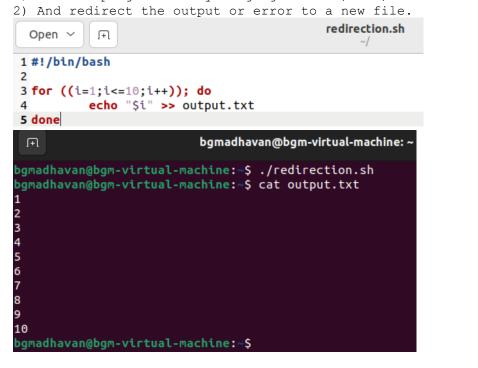
Recursive function

1) Write a program where the recursive function calculates the sum of N  $_{\mbox{\scriptsize numbers}}$ 



Basics of Redirection (error handling)

1) Write a program in any language like C, C++, Java.



- 3) Create a text file with some content like your name, address.
- 4) Redirect the content to a new file.

```
sample.txt ×

1 gokula madhavan
2 34,Valliammal street, kanniyappa Nagar, kanchipuram-631502.

redirect.sh ×

1 #!/bin/bash
2
3 cat sample.txt > redirect_sample.txt

bgmadhavan@bgm-virtual-machine:~

bgmadhavan@bgm-virtual-machine:~

gedit sample.txt &

[2] 3902
bgmadhavan@bgm-virtual-machine:~

gedit redirect.sh &

[3] 3926
[2] Done gedit sample.txt
```

More on Redirection

bgmadhavan@bgm-virtual-machine:~\$

gokula madhavan

1) Create X file.txt file with some content.

bgmadhavan@bgm-virtual-machine:~\$ ./redirect.sh

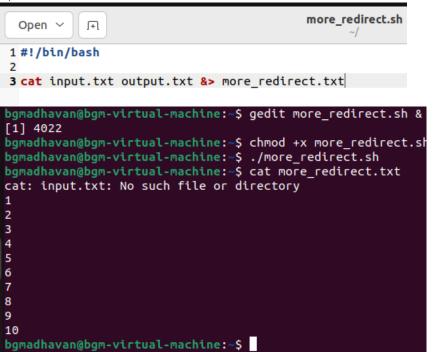
bgmadhavan@bgm-virtual-machine:~\$ chmod +x redirect.sh

bgmadhavan@bgm-virtual-machine:~\$ cat redirect\_sample.txt

34,Valliammal street, kanniyappa Nagar, kanchipuram-631502.

2) Redirect the content of both out file.txt and X file.txt to a new file

gedit redirect.sh



Here document and Here string

- 1) Convert a string to uppercase using:
  - a) Here document
  - b) Here string

Hint: tr a-z A-Z

```
here.sh
  Open ~
1 #!/bin/bash
3 tr [a-z] [A-Z] << HERE
4 this
5 is
6 an example
7 of here document
bgmadhavan@bgm-virtual-machine:~$ gedit here.sh &
[2] 4247
bgmadhavan@bgm-virtual-machine:~$ chmod +x here.sh
                             gedit here.sh
[2]+ Done
bgmadhavan@bgm-virtual-machine:~$ ./here.sh
THIS
IS
AN EXAMPLE
OF HERE DOCUMENT
bgmadhavan@bgm-virtual-machine:~$
```