REPORT ASSIGNMENT OPERATING SYSTEM A CLASS



"BASH Function"

Name:

Nurmalita Fitri Ramadani (21083010067)

Lecturer:

Mohammad Idhom, S.P., S.Kom., M.T. Nine Alvariqati (Assistant Lecturer)

DEPARTMENT OF DATA SCIENCE COMPUTER SCIENCE FACULTY UNIVERSITAS PEMBANGUNAN NASIONAL "VETERAN" JAWA TIMUR

2022

Function

A function is part of a script or program that contains some of several statement that works for specific task. Using script code subroutine will definitely simplify and more structured the program, because once the function has been created and is successfully running, it can be used for whenever we want.

i. Function 1

```
Declare the Function Syntax in this structure:

functionName () {

command1

command2

...

AnotherCommand
}
```

For example in our own GNU text editor, write it as the picture below shows:

Use bash command to see the output of the written syntax, it'll look like this:

```
litaa@litaa-VirtualBox:~/week7$ nano Function1.sh
litaa@litaa-VirtualBox:~/week7$ bash Function1.sh
Siapa namamu?
Litaa
Sebutkan npm
21083010067
Hai Litaa dengan npm 21083010067, Selamat datang
di praktikum Sistem Operasi. Good Luck!
```

ii. Function 2

Declare the Function Syntax in this structure:

```
function functionName {
    Statement-1 command...
    Statament-2 command...
    Statement-3 command...
    Etc
}
```

For example in our own GNU text editor, write it as the picture below shows:

Use bash command to see the output of the written syntax, it'll look like this:

```
litaa@litaa-VirtualBox:~/week7$ bash Function2.sh
Siapa namamu?
Litaa
Sebutkan NPM
21083010067
Hai Litaa dengan NPM 21083010067, selamat datang
di praktikum Sistem Operasi. Good Luck!
```

• Nested Function

In bash we can also make function script in nested function. For example in our own GNU text editor, write it as the picture below shows:

Use bash command to see the output of the written syntax, it'll look like this:

```
litaa@litaa-VirtualBox:~/week7$ nano Nested_function.sh
litaa@litaa-VirtualBox:~/week7$ bash Nested_function.sh
Siapa namamu?
Litaa
Sebutkan NPM
21083010067
Hai Litaa dengan NPM 21083010067, Selamat datang di praktikum Sistem Operasi. Good Luck!
```

• Bash Function with Parameters (x, y)

Making bash function script with parameters. For example in our own GNU text editor, write it as the picture below shows:

```
litaa@litaa-VirtualBox: ~/week7
File Edit View Search Terminal Help
 GNU nano 6.2
                                          Function_parameter.bash *
identitas
        parameter1=$1
        parameter2
       parameter3=
        echo "$parameter1"
echo "$parameter2"
echo "$parameter3"
echo "Masukkan Nama : "
echo "Masukkan NPM : "
 ead npm
echo "Hobimu Apa : "
 ead hobi
printf "\n"
identitas
```

Use bash command to see the output of the written syntax, it'll look like this:

```
litaa@litaa-VirtualBox:~/week7$ nano Function_parameter.bash
litaa@litaa-VirtualBox:~/week7$ bash Function_parameter.bash
Masukkan Nama :
Litaa
Masukkan NPM :
21083010067
Hobimu Apa :
Berenang

Litaa
21083010067
Berenang
```

• Practice Task

Make a bash function program that can calculate area of a square! Firstly, write the script in GNU nano text editor using nano command.

Then use bash command to see the output of the written syntax, it'll look like this:

```
litaa@litaa-VirtualBox:~/week7$ nano Tugas_7.sh
litaa@litaa-VirtualBox:~/week7$ bash Tugas_7.sh
Masukkan Panjang :
5
Masukkan Lebar :
Luas Persegi :
50
```