Notes:

Create bash file 🡪

Mkdir /tmp/scripts

Vim hello.sh

Press i to enter to insert mode

After finish (esc) an :x or :wq to save and close , or :q to exit

First line need to be interpreter directory

#! /usr/bin/bash

If I forget the dir use 🡪 which bash to check any interpreter like java which java

First script :

Vim hello.sh

Insert i

Whrite 🡪 #! Usr/bin/bash

Echo “welcome to my script”

Esc 🡪 :wq 🡪run script

./hello.sh

Or ./full path

Or bash hello.sh

Or sh hello.sh

Or source hello.sh

Sh & \bash 🡪 can debug and syntax check

Source 🡪 file has var or functions and I want to load vars and instances and functions in my session

Scripts :

Echo 🡪 print

Ex:) echo “hello ”

🡪print user than run this script , user id and his groups , pwd for the user , date or running the script in specific formate , files in the current dir , ip of the machine

1. Vim infor.sh
2. #! Usr/bin/bash
3. Whoami
4. Id -u
5. Pwd
6. Date +%F --(means full formate)
7. Ls --color (ls in script ll not be colored so I need to add –color )
8. Ip addr show ens33
9. Hostname -I (print only ip address)

A screenshot of a computer

Description automatically generated

A computer screen shot of a program

Description automatically generated

**Bash features :**

And &&, Or || , CMD sub $(cmd)

1-And cmd1 &&cmd2

I have 2 tasks , task 2 depends on task 1

ll not execute 2 if 1 not success

2-or cmd1&&cmd2

Execute any

3-cmd sub $(cmd ) مع بعض و يطلعو حاجه واحده

I want to create archive file and it ll be run every day with specific formate.

Tar -cvf backup-etc /etc 🡪 It ii archive /etc

I want to attach the date

* Ex1) Tar -cvf etc-backup-$(date +%F).tar date /etc

Ex2) echo “welcome $(whoami)”

**Redirect & pipeline:**

Bash features deal with commands output (result)

I want to use the output for cmd 1 as input for cmd2 🡪 it called pipeline

Take the output and save is as a file 🡪 it called redirect

Output 2 types :

1. Succeed output (standard output) (stdnout) return code or exit code =0

(> file) save only siccess output

1. Failure output (standard error)(stdnerr) return code or exit code =any num 1 to 127or 255 (2>file) save only failure

Each return code has meaning

So I can take stdnout in file and stdnerr in another file depends on the exit code

If I already have the file it ll overwrite

So we can append the date to keep the old files

>>file

2>>file

Conditions

