**BASH SCRIPTING**

To automate repetitive tasks: webserver status check, up/down,logginginfo databackup,cpu/ram,uptime check ,security/performance issue/system slow.

Types of scripting: BASH, ZSH, FISH(Friendly interactive shell), KSH (Korn), CSH(C shell),TCSH(tenex C shell), Powershell, python shell.

Fundamentals of BASH: Shell execute,multiplecmds,linux admin tasks customize, data backups

🡪#! bin/bash [#! Called as -->shebang]

echo “Welcome to DAY1 of scripting”

Multiple ways to execute script file: 1) sh file 2) bash file 3) ./filename[ we need to have x permission]

🡪 echo –e “welcome to class \n this is easy \t understand and interesting”

[\n – prints this in next line][\t – tab space]

🡪name=Imran[don’t give any space while giving]

echo “My name is $name”

🡪dynamically variable:

echo “Please enter your username”

read x[takes input from user and store it in x]

echo “Please enter password”

echo “my username is $x and password is $y “[ now both username and pswd gets printed]

🡪To hide the password[read –sp “please enter password” y][silent prompt]

🡪passing Arguments:

#! /bin/bash

echo “My name: ”$1

echo “iam from: ”$2

echo “lets print all data”

echo “My name is $1 and I’m from $2”

echo “ all the variables from $0”

echo “ these are the inputs: $@”

[$1 – first argument will store etc][arguments in which file-$0][$@- all the inputs print]

🡪Arithmetic operations:

N1=10

N2=12

echo “sum of two number: “ $(($n1+$n2))

🡪Conditions: if, if-else, elif, nestedif(when)

If condition:

Example : pass variable and check if empty/non-empty

#! /bin/bash

Name=””

If [[ -z $name ]]; (-z 🡪 checks for empty string)

Then (-n -> checks for non empty)

Echo “string is empty”

Else

Echo “This is non-empty”

Fi

Compare strings:

Name1=Imran

Name2=rani

If [[ $name1==$name2 ]] or {{ [[ $name1 != $name2 ]]- not equal}}

Then

Echo “both are same”

Else

Echo “both are diff”

fi

compare 2 numbers:

num1=22

num2=25

if [[ $num1 –eq $num2 ]];

then

echo “both are same”

else

echo “both are diff”

fi

🡪lt[lessthan],gt[greater than],le[lessthanequalto]