Bash scripts can be used for various purposes,

such as executing a shell command, running multiple commands together, customizing administrative tasks, performing task automation etc.

So knowledge of bash programming basics is important for every Linux user.

```
cat /etc/shells
which bash
```

```bash
#! /bin/bash
echo "raham" > file.txt
```

```bash
#! /bin/bash
count=10
if [$count -eq 10]
then
echo "true"
fi
```

```bash
#!/bin/bash
n=10
if [ $n -lt 10 ];
then
echo "It is a one digit number"
else
echo "It is a two digit number"
fi
```

```bash
#!/bin/bash
echo "Printing text with newline"
echo -e "\nRemoving \t backslash \t characters\n"
```

```bash
#!/bin/bash

# Add two numeric value
((sum=25+35))

#Print the result
echo $sum
```

```bash
#!/bin/bash
: '
The following script calculates
the square value of the number, 5.
'

Or

<< ///
The following script calculates
the square value of the number, 5
///
((area=10*5))
echo $area
```

--=

```bash
#!/bin/bash
valid=true
count=1
while [ $valid ]
do
echo $count
if [ $count -eq 5 ];
then
break
fi
```

```bash
((count++))

done
```

```bash
#!/bin/bash

echo "Enter Your Name"

read name

echo "Welcome $name"
```

```bash
!/bin/bash


echo "Enter username"

read username

echo "Enter password"

read password


if [[ ( $username == "raham" && $password == "1234" ) ]]; then

echo "valid user"

else

echo "invalid user"

fi
```

```bash
#!/bin/bash


echo "Enter your lucky number"

read n


if [ $n -eq 101 ];

then

echo "You got 1st prize"

elif [ $n -eq 510 ];

then
```

```bash
echo "You got 2nd prize"

elif [ $n -eq 999 ];

then

echo "You got 3rd prize"


else

echo "Sorry, try for the next time"

fi
```

```bash
#!/bin/bash


echo "Enter your lucky number"

read n


if [ $n -eq 101 ];

then

echo "You got 1st prize"

elif [ $n -eq 510 ];

then

echo "You got 2nd prize"

elif [ $n -eq 999 ];

then

echo "You got 3rd prize"


else

echo "Sorry, try for the next time"

fi
```

```bash
#!/bin/bash

echo "Total arguments : $#"

echo "1st Argument = $1"
```

echo "2nd argument = $2"

./filename Redhat ubuntu fedora centos

```bash
#!/bin/bash

string1="Linux"
string2="unix"
echo "$string1$string2"
```

```bash
#!/bin/bash
echo "Enter directory name"
read newdir
mkdir $newdir
```

```bash
#!/bin/bash
echo "Enter filename"
read a
touch $a
```

```bash
#!/bin/bash
echo "Enter directory name"
read ndir
if [ -d "$ndir" ]
then
echo "Directory exist"
else
`mkdir $ndir`
echo "Directory created"
fi
```

```
#!/bin/bash

echo "Enter filename to remove"

read fn

rm -i $fn
```

CRONTAB EXAMPLES:

```
* * * * * lscpu >> /tmp/cpuinfo

* * * * * lsmem >> /tmp/abc.txt
```

Script to delete files with are older than 60 days:

```
#! /bin/bash

find /opt/ -type f -mtime +30

echo "im deleting the files"

find /opt/ -type f -mtime +30 -delete
```

delete only .txt files on abc folder

command to modify the file times: touch -t 202208311530 * (The "-t" option modifies the time stamp of the file and the format is YYYYMMDDHHMM.)

```
find /root/abc -name "*.txt" -type f -mtime +30

echo "im deleting files with are older than 30 days"

find /root/abc -name "*.txt" -type f -mtime +30 -delete
```

```
1  wget https://releases.jfrog.io/artifactory/artifactory-rpms/artifactory-rpms.repo -O jfrog-
artifactory-rpms.repo

   3  mv jfrog-artifactory-rpms.repo /etc/yum.repos.d/

   4  yum update -y

   5  yum install jfrog-artifactory-oss -y

   6  systemctl start artifactory.service

   7  systemctl status artifactory.service

   8  cd /opt/jfrog/artifactory/
```

9 ll

    10 ls var/

    11 cd var/log/

    12 ll

    13 cat console.log

    14 cat console.log | grep -i error

    15 cat console.log | grep -i warn

    16 history

NEXUS:

NEXUS:

1 cpu and 2 gb of ram

22 and 8081 port

Openjdk8

NEXUS SETUP:

    1 sudo yum update -y

    2 sudo yum install wget -y

    3 sudo yum install java-1.8.0-openjdk.x86_64 -y

    4 sudo mkdir /app && cd /app

    5 sudo wget -O nexus.tar.gz https://download.sonatype.com/nexus/3/latest-unix.tar.gz

    6 ll

    7 sudo tar -xvf nexus.tar.gz

    8 ll

    9 sudo mv nexus-3* nexus

    10 sudo adduser nexus

    11 sudo chown -R nexus:nexus /app/nexus

    12 sudo chown -R nexus:nexus /app/sonatype-work

13 sudo vi /app/nexus/bin/nexus.rc

run_as_user="nexus"

14 sudo vi /app/nexus/bin/nexus.vmoptions

15 sudo vi /etc/systemd/system/nexus.service

[Unit]

Description=nexus service

After=network.target

[Service]

Type=forking

LimitNOFILE=65536

User=nexus

Group=nexus

ExecStart=/app/nexus/bin/nexus start

ExecStop=/app/nexus/bin/nexus stop

User=nexus

Restart=on-abort

[Install]

WantedBy=multi-user.target

16 sudo chkconfig nexus on

17 sudo systemctl start nexus

18 systemctl status nexus.service

19 sudo systemctl enable nexus

20 systemctl status nexus.service

21 history

JENKINS SETUP:

sudo wget -O /etc/yum.repos.d/jenkins.repo https://pkg.jenkins.io/redhat-stable/jenkins.repo

sudo rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io.key

amazon-linux-extras install java-openjdk11 -y

yum install jenkins -y && systemctl restart jenkins

yum install java-1.8.0-openjdk -y

yum install maven -y

yum install git -y

Vim /etc/maven/settings.xml (line-119)

```
<server>
  <id>nexusRepo</id>
  <username>admin</username>
  <password>Mashalla</password>
</server>
```