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Assignment no. 1

Q1.

Ans.

Code: `if [$# -ne 3]`

```
then
    echo "$0: Numbers are not entered"
    exit 1
fi
n1=$1
n2=$2
n3=$3
if [ $n1 -gt $n2 ] && [ $n1 -gt $n3 ]
then
    echo "Number 1 is biggest: $n1"
elif [ $n2 -gt $n1 ] && [ $n2 -gt $n3 ]
then
    echo "Number 2 is biggest: $n2"
elif [ $n3 -gt $n1 ] && [ $n3 -gt $n2 ]
then
    echo "Number 3 is biggest: $n3"
elif [ $1 -eq $2 ] && [ $1 -eq $3 ] && [ $2 -eq $3 ]
then
    echo "All the three numbers are equal"
else
    echo "Unable to determine"
fi
```

Output:

```
prathamesh@prathamesh:~/Documents$ ls
case.sh  menu.sh  prathamesh.sh  script  sum1.sh  sum.sh  threenum.sh
prathamesh@prathamesh:~/Documents$ ./threenum.sh
./threenum.sh: Numbers are not entered
prathamesh@prathamesh:~/Documents$ ./threenum.sh 4 3 7
Number 3 is biggest: 7
prathamesh@prathamesh:~/Documents$ ./threenum.sh 9 8 4
Number 1 is biggest: 9
prathamesh@prathamesh:~/Documents$ ./threenum.sh 6 10 1
Number 2 is biggest: 10
prathamesh@prathamesh:~/Documents$ ./threenum.sh 4 4 3
Unable to determine
prathamesh@prathamesh:~/Documents$ ./threenum.sh 4 4 4
./threenum.sh: line 21: [: missing `]'
Unable to determine
prathamesh@prathamesh:~/Documents$
```

Q2.

Ans.

Code: if test \$# = 3

then

case \$2 in

+) let z=\$1+\$3;;

-) let z=\$1-\$3;;

/) let z=\$1/\$3;;

x|X) let z=\$1*\$3;;

*) echo Warning - \$2 invalid operator, only +,-,x,/ operator allowed

exit;;

esac

echo Answer is \$z

else

echo "Usage - \$0 value1 operator value2"

echo " Where, value1 and value2 are numeric values"

echo " operator can be +,-,/,x (For Multiplication)"

fi

Output:

```
prathamesh@prathamesh:~/Documents$ ls
case.sh  menu.sh  prathamesh.sh  script  sum1.sh  sum.sh  threenum.sh
prathamesh@prathamesh:~/Documents$ ./case.sh
Usage - ./case.sh value1 operator value2
       Where, value1 and value2 are numeric values
           operator can be +,-,/,x (For Multiplication)
prathamesh@prathamesh:~/Documents$ ./case.sh 4 + 2
Answer is 6
prathamesh@prathamesh:~/Documents$ ./case.sh 4 - 2
Answer is 2
prathamesh@prathamesh:~/Documents$ ./case.sh 4 / 2
Answer is 2
prathamesh@prathamesh:~/Documents$ ./case.sh 4 x 2
Answer is 8
prathamesh@prathamesh:~/Documents$ ./case.sh 4 2
```

Q3.

Ans.

Code: read a
 read b
 sum=`echo \$a + \$b | bc -l`
 echo "The sum: \$sum"

Output:

```
prathamesh@prathamesh:~/Documents$ ls
case.sh  menu.sh  prathamesh.sh  script  sum1.sh  sum.sh  threenum.sh
prathamesh@prathamesh:~/Documents$ ./sum.sh
4
7
The sum: 11
prathamesh@prathamesh:~/Documents$ █
```

Q4.

Ans.

Code:

```
echo "1. To check currently logged user"
echo "2. To check current shell"
echo "3. To check home directory"
echo "4. To check OS type"
echo "6. To check current path"
echo "7. To check number of users logged in"
echo "8. To check About OS and version,release number,kernel version"
echo "Enter your choice"
read choice
case $choice in
1) echo "Currently logged user is"
whoami;;
2)echo "Current shell is $SHELL";;
3)echo "Home Directory is $HOME";;
4)echo "OS Type "
uname -o;;
5)echo "Current path setting $PATH";;
6)echo "Current path is"
pwd;;
7)echo "Number of users logged in"
who -q;;
8)echo "OS Details"
hostnamectl;;
*)echo "Invalid choice"
esac
```

Output:

```
prathamesh@prathamesh:~$ cd Documents
prathamesh@prathamesh:~/Documents$ ./menu.sh
1. To check currently logged user
2. To check current shell
3. To check home directory
4. To check OS type
6. To check current path
7. To check number of users logged in
8. To check About OS and version,release number,kernel version
Enter your choice
1
Currently logged user is
prathamesh
prathamesh@prathamesh:~/Documents$ ./menu.sh
1. To check currently logged user
2. To check current shell
3. To check home directory
4. To check OS type
6. To check current path
7. To check number of users logged in
8. To check About OS and version,release number,kernel version
Enter your choice
2
Current shell is /bin/bash
prathamesh@prathamesh:~/Documents$ ./menu.sh
1. To check currently logged user
2. To check current shell
3. To check home directory
4. To check OS type
6. To check current path
7. To check number of users logged in
8. To check About OS and version,release number,kernel version
Enter your choice
3
Home Directory is /home/prathamesh
prathamesh@prathamesh:~/Documents$ ./menu.sh
1. To check currently logged user
2. To check current shell
3. To check home directory
4. To check OS type
6. To check current path
7. To check number of users logged in
8. To check About OS and version,release number,kernel version
Enter your choice
4
OS Type
GNU/Linux
```

```

4. To check OS type
6. To check current path
7. To check number of users logged in
8. To check About OS and version,release number,kernel version
Enter your choice
5
Current path setting /usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/snap/bin:/snap/bin
prathamesh@prathamesh:~/Documents$ ./menu.sh
1. To check currently logged user
2. To check current shell
3. To check home directory
4. To check OS type
6. To check current path
7. To check number of users logged in
8. To check About OS and version,release number,kernel version
Enter your choice
6
Current path is
/home/prathamesh/Documents
prathamesh@prathamesh:~/Documents$ ./menu.sh
1. To check currently logged user
2. To check current shell
3. To check home directory
4. To check OS type
6. To check current path
7. To check number of users logged in
8. To check About OS and version,release number,kernel version
Enter your choice
7
Number of users logged in
prathamesh
# users=1
prathamesh@prathamesh:~/Documents$ ./menu.sh
1. To check currently logged user
2. To check current shell
3. To check home directory
4. To check OS type
6. To check current path
7. To check number of users logged in
8. To check About OS and version,release number,kernel version
Enter your choice
8
OS Details
Static hostname: prathamesh
Icon name: computer-vm
Chassis: vm
Machine ID: 284322cecd3d4961b2f3179e3d2373b6
Boot ID: 99f6a3ee9d474d0d83cf05163bc8845e
Virtualization: oracle
Operating System: Ubuntu 22.04.1 LTS
Kernel: Linux 5.15.0-46-generic
Architecture: x86_64
Hardware Vendor: innotek GmbH
Hardware Model: VirtualBox
prathamesh@prathamesh:~/Documents$

```