Shell Scripting

1) Guess the number using while loop

```
#!/bin/bash

while [ True ];

do

read -p "Enter No:" num

if [ $num -eq 40 ]

then

echo "correct"

break;

elif [ $num -lt 40 ]

then

echo "Not enough"

else

echo "too much"

fi

done
```

```
tirth@Ubuntu:~/demo$ nano ex1.sh
tirth@Ubuntu:~/demo$ bash ex1.sh
Enter No:33
Not enough
Enter No:44
too much
Enter No:40
correct
tirth@Ubuntu:~/demo$
```

2) if person age is greater than 18 and have voter id --> eligible to vote. if less than 18 --> need to wait

```
GNU nano 6.2

#!/bin/bash

read -p "Enter Age:" age
if [ $age -ge 18 ];
then

read -p "Do you have Voter ID:(1/0)" vid
    if [ $vid -eq 1 ];
    then echo You are eligible for voting.
    else echo you are not eligible for voting.

fi
else echo you are under age.
fi
```

```
tirth@Ubuntu:~/demo$ nano ex2.sh
tirth@Ubuntu:~/demo$ bash ex2.sh
Enter Age:19
Do you have Voter ID:(1/0)0
you are not eligible for voting.
tirth@Ubuntu:~/demo$ bash ex2.sh
Enter Age:23
Do you have Voter ID:(1/0)1
You are eligible for voting.
tirth@Ubuntu:~/demo$
```

3) Get 3 numbers from the user and find the greater number

```
tirth@Ubuntu: ~/demo

GNU nano 6.2 file.sh

#!/bash/bin

read -p "Enter No1:" a
read -p "Enter No3:" c

if [ $a -gt $b ] && [ $a -gt $c ];

then

echo "$a is greater."

elif [ $b -gt $c ] && [ $b -gt $a ];

then

echo "$b is greater."

else

echo "$c is greater."
```

```
tirth@Ubuntu:~/demo

tirth@Ubuntu:~/demo
nano file.sh
tirth@Ubuntu:~/demo
bash file.sh
Enter No1:7
Enter No2:6
Enter No3:5
7 is greater.
tirth@Ubuntu:~/demo
$
```

4) give 5 change to user to guess the number using for loop

```
GNU nano 6.2

#!/bash/bin

count=5

for ((i=1;i<6;i++))

do

read -p "Enter No:" num

if [ $num -gt 40 ]

then

echo "too much"

elif [ $num -eq 40 ]

then

echo "correct"

break

else

echo "Not enough"

fi

n=$(($count-i))

echo "$n attempt left"

done
```

```
tirth@Ubuntu:~/demo$ nano ex4.sh
tirth@Ubuntu:~/demo$ bash ex4.sh
Enter No:22
Not enough
4 attempt left
Enter No:33
Not enough
3 attempt left
Enter No:44
too much
2 attempt left
Enter No:55
too much
1 attempt left
Enter No:40
correct
tirth@Ubuntu:~/demo$
```

5) find the sum of digits of number entered.

```
tirth@Ubuntu:~/demo$ nano ex5.sh
tirth@Ubuntu:~/demo$ bash ex5.sh
Enter Number:123
Sum= 6
tirth@Ubuntu:~/demo$ bash ex5.sh
Enter Number:562
Sum= 13
```

6) find the reverse of the number entered.

```
tirth@Ubuntu:~/demo$ touch ex6.sh
tirth@Ubuntu:~/demo$ nano ex6.sh
tirth@Ubuntu:~/demo$ bash ex6.sh
Enter No:123
Reversed No: 321
```

7) find whether the given number in prime or not

```
GNU nano 6.2
#!/bash/bin
read -p "Enter No:" num
count=0;
for((i=2;i<$num;i++))</pre>
        n=$(($num%$i));
if [ $n -eq 0 ]
                 count=$(($count+1))
if [ $count -eq 0 ] then
        echo "Prime No."
        echo "Not prime No."
tirth@Ubuntu:~/demo$ touch ex7.sh
tirth@Ubuntu:~/demo$ nano ex7.sh
tirth@Ubuntu:~/demo$ bash ex7.sh
Enter No:20
Not prime No.
tirth@Ubuntu:~/demo$ nano ex7.sh
tirth@Ubuntu:~/demo$ bash ex7.sh
Enter No:5
Prime No.
tirth@Ubuntu:~/demo$
```