

**Unix Lab**  
**Experiment no. 8: shell script.**

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To perform following SHELL SCRIPT programs:

- 1) Printing count of arguments passed by command line.
- 2) Accept age from user and if user enters 18-60 age then give message "ELIGIBLE FOR VOTING".
- 3) Refer (2) if user enters anything besides 18-60 message "INVALID".
- 4) Accept a number from user and test whether it is "POSITIVE","NEGATIVE" or "ZERO".
- 5) Ask user how many times to print "HELLO".
  - a) Using "while loop".
  - b) Using "for loop".
- 6) Using "until loop" prints "HELLO" 5 times.
- 7) Print numbers 1-7 using 3 different variants of "for loop".
- 8) check whether user entered number is EVEN or ODD.
- 9) Check whether user entered number is PRIME or not.

**Shell script:**

```
echo Number of arguments passed are: "$#"


```

```
read -p "your age: " age
if [ $age -lt 18 ] || [ $age -gt 60 ]
then
    echo "INVALID"
else
    echo "ELIGIBLE FOR VOTING"
fi


```

```
read -p "enter a number: " n
if [ $n -eq 0 ]
then
    echo "ZERO"
elif [ $n -lt 0 ]
then
    echo "NEGATIVE"
else
    echo "POSITIVE"
fi


```

```
read -p "how many times to loop using for loop: " n
for (( i=1; i<=$n; i++))
do
    echo "Hello"
done


```

```
read -p "how many times to loop using while loop: " n
i=1
while(( $i <= $n ))
do
    echo "Hello"
    ((i++))
done


```

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```
echo "printing hello 5 times using until"
i=0
until [ ! $i -lt 5 ]
do
    echo "hello"
    ((i++))
done

echo "printing 1 to 7 using 3 types of for loop"
for (( i=1; i<=7; i++ ))
do
    echo -n $i " "
done
echo ""

for i in 1 2 3 4 5 6 7
do
    echo -n $i " "
done
echo " "

for i in {1..7..1}
do
    echo -n $i " "
done

echo ""
read -p "enter number: " n
if (( $n % 2 == 0 ))
then
    echo "EVEN"
else
    echo "ODD"
fi

read -p "enter number: " n
flag=0
for((i=2; i<$n; i++))
do
    if(($n % $i == 0))
    then
        flag=1
        break
    fi
done
if(($flag == 0))
then
    echo "PRIME"
```

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```
else
    echo "NOT PRIME"
fi
```

```
erKashif-Pc+erKashifK@erKashif-Pc ~
$ sh prg2.sh abc 3
Number of arguments passed are: 2
your age: 17
INVALID
enter a number: 23
POSITIVE
how many times to loop using for loop: 3
Hello
Hello
Hello
how many times to loop using while loop: 4
Hello
Hello
Hello
Hello
printing hello 5 times using until
hello
hello
hello
hello
hello
printing 1 to 7 using 3 types of for loop
1 2 3 4 5 6 7
1 2 3 4 5 6 7
1 2 3 4 5 6 7
enter number: 3
ODD
enter number: 7
PRIME
```