```
for var in {1..5}
do
        mkdir $var
done

var=6
while ((var <= 10))
do
        touch $var
        var=$((var+1))
done

#removes all
ls_array=($(ls))
for name in ${ls_array[@]}
do
        then
                rm -r $name
        fi
done


ls_array=($(ls))
for name in ${ls_array[@]}                              command er pore $(cmd)
do
        if [[ ! $name =~ \.sh$ ]]
        then
                rm -r $name
        fi
done


echo "enter a number for the multi table: "
read n
i=1

while ((i<=10))
do
        echo "$n * $i = $((n*i))"
        i=$((i+1))
done

#can't use -ne -gt in strig op only != and things like that

#delete w/o the current script

current_script=$(basename $0)
files=($(ls))
for f in ${files[@]}
do
```

```
        if [[ $f != $current_script ]]
        then
                rm -r $f
        fi
done


: '
read grade
case $grade in
        100)
        echo "perfect score"
        ;;
        90)
        echo "good"
        ;;
        80)
        echo "okay"
        ;;
        *)
        echo "try again"
        ;;
esac

name="for.txt"
for i in $(cat $name)
do
        echo $i
done

#word/char count
numbr=$(wc -L < for.txt)
echo $numbr
#linecount

name=$(cat for.txt)
count=0
res=0
for ((i=0;i<${#name};i++))
do
        if [[ ${name:$i:1} = $'\n' ]]
        then
                if [[ $count > $res ]]
                then
                        res=$count

                fi
                count=0
        else
                count=$((count+1))
```

```
        fi
done
echo $res

name=($(ls))
echo ${#name[@]}

read n
read m
declare -A arr
for ((i=0;i<n;i++))
do
        for ((j=0;j<m;j++))
        do
                read a
                arr[$i,$j]=$a
        done
done

for ((i=0;i<n;i++))
do
        for ((j=0;j<m;j++))
        do
                echo -n ${arr[$i,$j]}
        done
done


a="abcdefgh"
for ((i=0;i<${#a}-2;i+=1))
do
        if [[ ${a:$i:3} == "def" ]]
        then
                echo "found"
        fi
done

a=(1 2 3 4 5)
res=0
for ((i=0;i<${#a[@]};i++))
do
        res=$((res+a[$i]))
done

echo $res

function largest(){
        array=("$@") ####
        big=${array[0]}
        for ((i=0;i<${#array[@]};i++))
```

```
        do
                if [[ ${array[$i]} > $big ]]
                then
                        big=${array[$i]}
                fi
        done
        echo $big

}

read n
declare -A arr

for ((i=0;i<n;i++))
do
        read a
        arr[$i]=$a
done
ans=$(largest ${arr[@]}) ###

echo $ans

function dup(){
        val=$1
        for ((i=0;i<${#val};i++))
        do
                for ((j=i+1;j<${#val};j++))
                do
                        if [[ ${val:$j:1} == ${val:$i:1} ]]
                        then
                                echo "dup found"
                                return
                        fi
                done
        done

        echo "no dup"
}

dup "hell"
dup "hel"


one=1
two=10

until (( one > two ))
do
        echo $one
        ((one++))
```

```
done

while read f
do
        echo -n $f
done < for.txt


while IFS=',' read one two three
do
        if [[ $one =~ [A-Za-z]+ && $two =~ [A-Za-z]+ && $three =~ [A-Za-z]+ ]]
        then
                continue
        else
                echo "$one-$two-$three"
        fi
done < test.csv

echo $1
shift
if [[ $1 == "" ]]
then
        echo "nehi hae"
else
        echo $1
fi

read -p "type the site name: " site
ping -c 1 $site
if [[ $? == 0 ]]
then
        echo "successful"
else
        echo "not succ"
fi

str="site: www.google.com"
if [[ $str =~ (www.[a-z]+\.com$) ]]
then
        echo "site is: ${BASH_REMATCH[1]}"
fi

total=($(ls))
for i in ${total[@]}
do
        if [[ -f $i ]]
        then
                echo "$i " >> file.txt
        elif [[ -d $i ]]
        then
```

```
                echo "$i " >> folder.txt
        else
                continue
        fi
done
'
site="www.youtube.com"
ping -c 1 $site &> /dev/null


: '
a=1.2
b=1
result=$(echo "scale=3; $a / $b" | bc)
new=$(echo "scale=3; sqrt(24)" | bc)
echo $result
echo $new

#for line printing
grep -E -n -v "[0-9,]*[a-z]+" test.csv for.txt
grep -c -i "There" for.txt
ls -l | grep 'shell2.sh$'



x='helo'
echo $x
export x
bash
echo $x
exit
echo $x

a="hello"
b="aloha $a"
echo ${b%hello*}
if [[ -z $a ]]
then
        echo  zero
fi


unset name
echo ${name-'amy'}
unset a
val= ${a?'a is unset'}
echo $val
'
```

```
: '


Suites="Clubs Diamonds Hearts Spades"
Denominations="2 3 4 5 6 7 8 9 10 Jack Queen King Ace"

suite=($Suites)
denom=($Denominations)

n1=${#suite[@]}
n2=${#denom[@]}

echo ${suite[$((RANDOM%n1))]}
echo ${denom[$((RANDOM%n2))]}

for file in *
do
        echo $file
done


for file in *
do
        f=$(basename $file)
        n=$(echo $f | tr A-Z a-z)
        if [[ $f != $n ]]
        then
                mv $f $n
                echo done
        fi
done



cmp $1 $2 &> /dev/null
if [[ $? == 0 ]]
then
        echo same
else
        echo not same
fi
'

echo "scale=3; 40 * 10 / 2.533" | bc
```