

**Assignment 1: Ensure the script checks if a specific file (e.g., myfile.txt) exists in the current directory. If it exists, print "File exists", otherwise print "File not found".**

```
#!/bin/sh
read -p "enter file name : " filename
if [ -e $filename ]
then
    echo "file present"
else
    echo "file does not present"
fi
```

**Assignment 2 : Count the number of directory and files in specific folder.**

```
#!/bin/sh

countfile=0
countdirectory=0

for itr in *
do
    if [ -d "$itr" ]; then
        echo "dir $itr"
        countdirectory=$((countdirectory + 1))
    elif [ -f "$itr" ]; then
        echo "file $itr"
        countfile=$((countfile + 1))
    fi
done

echo "There are $countfile files and $countdirectory directories"
```

**Assignment 3 : find the smallest number from the array.**

```
mark=(1 2 3 4)
min=6
for each in "${mark[@]}"
do
    if [ "$each" -lt "$min" ]; then
        min=$each
    fi
done
echo "Minimum number is $min"
```

**Assignment 4 : find the sum of the array.**

```
sum=0
for each in "${mark[@]}"
do
    sum=$((sum + each))
done
echo "Sum is $sum"
```

**Assignment 5 : display all the directory names.**

```
#!/bin/sh

echo "Directories in the current directory:"
for item in *
do
    if [ -d "$item" ]; then
        echo "$item"
    fi
done
```

**Assignment 6 : check weather the number is palindrom or not.**

```
echo "Input number:"
read number
clone=$number
reverse=0

while [ "$number" -gt 0 ]
do
    mod=$((number % 10))
    number=$((number / 10))
    reverse=$((reverse * 10 + mod))
    echo "mod: $mod, number: $number, reverse: $reverse"
done

echo "Reversed number is $reverse"
if [ "$clone" -eq "$reverse" ]; then
    echo "Number is a palindrome"
else
    echo "Number is not a palindrome"
fi
```

**Assignment 7: Write a script that reads numbers from the user until they enter '0'. The script should also print whether each number is odd or even.**

```
while true
do
    echo "Enter a number (enter 0 to exit): "
    read number

    if [ "$number" -eq 0 ]; then
        echo "Exiting..."
        break
    fi

    if [ $(number % 2) -eq 0 ]; then
        echo "The number $number is even."
    else
        echo "The number $number is odd."
    fi
done
```