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".

Program:

```
#!/bin/sh

filename="myfile.txt"

if [ -f "$filename" ]
then
    echo "File exists"
else
    echo "File not exists"
fi
```

Output:

```
File not exists
```

==

2: 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.

Program:

```
#!/bin/bash

while true; do
read -p "Number from 0: " num

if [ $num -eq 0 ]; then
    echo "Stop the program"
    break;
fi

if [ $((num % 2)) -eq 0 ]; then
    echo "$num is Even number"
else
    echo "$num is Odd number"
fi
done
```

Output:

```
Number from 0: 7
7 is Odd number
Number from 0: 8
8 is Even number
Number from 0: 0
```

Stop the program

===

3.Count the number of directory and files in specific folder.

Program:

#!/bin/sh

Output:

===

4.Find the smallest number from the array.

Program:

#!/nib/bash

arr=(14 24 51 2 30)

smallestnum=${arr[0]}

```
for number in "${arr[@]}"; do
   if [ $number -lt $smallestnum ]; then
        smallestnum=$number
   fi
done
```

echo "The smallest number in array is: $smallestnum"

Output:

The smallest number in array is: 2

===

5.Find the sum of the array.

program:

#!/bin/bash

```
arr=(1 3 4 7 8 9)
sum=0
for num in ${arr[@]}
do
    sum=$((sum+num))
```

done

echo "The sum of the array is: $sum"

Output:

The sum of the array is: 32

==

6.Display all the directory names.

Program:
```bash
#!/bin/bash
for item in *; do
  if [ -d "$item" ]; then
      echo "$item"
  fi
done
```

Output:

Batch2
Desktop
Documents
Downloads
….etc,
Videos

==

7.Check weather the number is palindrome or not.

Program:

```bash
#!/bin/bash

palindrome(){
Read -p "Enter the number: " num;
rev=$($num | rev)
if [ $num -eq rev ]; then
   echo "Palindrome"
else
   echo "Not a palindrome"
fi
}

palindrome $num
```

Output:

Enter the number: 121
Palindrome

Enter the number:234
Not a palindrome
==