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

#!/bin/sh

echo "Enter the

number:"read num

if ((num % 2 == 1));

   thenecho "odd"

else

   echo "even"

fi

Sample Output:

Enter a number:

3 is odd

Enter a number:

4 is even

Display All the Directory Names :

#!/bin/sh

Display all the directory names in a specified folder

read -p "Enter the folder path: " folder

if [-d "$folder"]; then

   echo "Directories in $folder:" find "$folder" -type d

else

```
    echo "Folder not found"

fi
```

Sample Output: Enter the folder path: /home/rps/programs

Directories in /home/rps/programs: /home/rps/programs

/home/rps/programs/download

Find the Smallest Number from the Array

```
#!/bin/sh

numbers=(44 7 92 1 25)

smallest=${numbers[0]}

for num in "${numbers[@]}"; do

   if (( num < smallest )); then

      smallest=$num

   fi

done

echo "The smallest number is: $smallest"
```

Sample output: The smallest number is: 1

Count the number of directory and files in specific folder.

```
#!/bin/sh

dir_count=0

file_count=0

folder="/path/to/your/programs"
```

```bash
for item in "$folder"/*; do
  if [ -d "$item" ]; then

    dir_count=$((dir_count + 1))

  elif [ -f "$item" ]; then

    file_count=$((file_count + 1))
  fi
done

echo "Total number of directories: $dir_count"

echo "Total number of files: $file_count"
```

Sample Output: Enter the folder path: /home/rps/programs

Number of directories: 1

Number of files: 18

Find the Sum of the Array

```bash
#!/bin/bash

array=(10 5 15 3 7)

sum=0

for num in "${array[@]}"

do

  sum=$((sum + num))

done

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

Sample Output: The sum of the array is: 40

Check whether the number is palindrome or not

```bash
#!/bin/bash

# Function to check if a number is a palindrome
is_palindrome() {

  local num=$1
  local reverse=0

  local temp=$num

  while [ $num -gt 0 ]

  do
    remainder=$(( $num % 10 ))

    reverse=$(( $reverse * 10 + $remainder ))

    num=$(( $num / 10 ))

  done

  if [ $temp -eq $reverse ]

  then

    echo "The number $temp is a palindrome."

  Else

    echo "The number $temp is not a palindrome."

  Fi

}

read -p "Enter a number: " num

is_palindrome $num
```

Sample Output: Enter a number: 141

141 is palindrome

<u>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".</u>

```bash
#!/bin/bash

check_file() {

   local file_name=$1

   if [ -f "$file_name" ]

   then

      echo "File $file_name exists."

   Else

      echo "File $file_name not found."

   fi

}

file_name="myfile.txt"

check_file "$file_name"
```

Sample Output: Enter the File name: array.sh

File not found