```bash
#!/bin/bash
__acduroy__

#**************************************************
# Description    : A bash script to modify the Linux lsscsi utility.
#                : To list  SCSI devices and their  attributes
# Usage          :  ./mylsscsi.sh
#**************************************************

#declare global variables here
declare -ga diskname

echo
echo "   Running modified lsscsi utility !!!  "
echo

function getdevices(){
#*** declare variables ***
local -i nline      # total lines with 'disk' word content in lsscsi command
local -i ptrline    # pointer to the current line
local -i i          # number of disk/s found
local -a tmpdiskname     # array of disk devices

#*** count all disk devices in the system ***
nline=$(lsscsi |grep disk |grep 5:0 |wc -l)

#* for loop to populate array disk ***
if [ $nline -eq 1 ]
        then
                diskname[0]=$(lsscsi |grep disk |cut -c 59-61)
                i=1
        else
                nline=$nline-1
                for ((i=0; i <= $nline; i++))
                do
                        ptrline=i+1
                        device=$(lsscsi |grep disk |head -n $ptrline |tail -n 1 |cut -c 59-61)
                        tmpdiskname+=("$device")
                done
fi

#*** display all disk devices ***
#echo $i
#echo ${diskname[@]}
diskname="$(declare -p tmpdiskname)"
main
exit 1
}
```

```bash
function getserialnumber(){
serial=$(sg_inq /dev/$1 |grep -w "serial number:" |cut -c 21-43)
echo $serial
exit 1
}

function getcapacity(){
capacity=$(sg_readcap /dev/$1 |grep -w "Device size" |cut -c 16-60)
echo $capacity
exit 1
}


function main(){
local -i numdevices
local -i ptrnewline
local -i start


# *** program encountered fatal error  ***
if [ $? -ne 0 ]
then
        echo "$0: fatal error:" "$@" >&2
        exit 1
else
    #get number of physical disk(s) found in the system
    numdevices=$(lsscsi |grep disk |grep 5:0 |wc -l)
    echo $numdevices " Physical device(s) found !!!"

        eval "declare -a NEWLIST=${diskname#*=}"
        echo "Device Name of Physical Disk(s): " "${NEWLIST[@]}"

        if [ $numdevices -eq 1 ]
        then
                echo "sda"
                serialnumer=$(getserialnumber "sda")
                capacity=$(getcapacity "sda")
                lsscsicmd=$(lsscsi |grep disk)
                echo $lsscsicmd $serialnumber $capacity
        else
                start=1
        for disk in ${!NEWLIST[*]}  # ((i=0; i <= $start; i++))
                do
                        #echo "$disk: ${NEWLIST[$disk]}"
                        ptrnewline=i+1
                        serialnumber=$(getserialnumber ${NEWLIST[disk]})
                        capacity=$(getcapacity ${NEWLIST[disk]})
```

```
                    lsscsicmd=$(lsscsi |grep disk |head -n $start|tail -n 1)
                    echo $lsscsicmd $serialnumber $capacity
                    start=$start+1
            done
        fi
fi
exit 1
}

getdevices
```