```bash
AvikRnB:~ avikrb$ cat checkmac


#!/bin/bash

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## DESCRIPTION: SCRIPT THAT TAKES MAC ADDRESS FROM THE USER AND VALIDATES
IT BEFORE GIVING INFORMATION ABOUT THE MANUFACTURER
## COURSE: SCRIPT PROGRAMMING FOR NETWORK ADMINISTRATION
## INSTITURE: UNIVERSITY OF NEW HAVEN
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echo
echo

## ASK THE USER TO ENTER THEIR MAC ADDRESS

echo "Enter MAC address in the hex format XX:XX:XX:XX:XX:XX- "
read mac
echo
echo

## VALIDATING THE MAC ADDRESS
## SCRIPT IS CAPABLE OF READING UPPERCASE AND LOWERCASE ALPHABETS A-F
validate=$( echo $mac | egrep
^[0-9a-fA-F][0-9a-fA-F]\:[0-9a-fA-F][0-9a-fA-F]\:[0-9a-fA-F][0-9a-fA-F
]\:[0-9a-fA-F][0-9a-fA-F]\:[0-9a-fA-F][0-9a-fA-F]\:[0-9a-fA-F][0-9a-fA
-F]$ )

## MANUFACTURER INFORMATION
cisco=$( echo $mac | egrep
^[0][0]\:[0][0]\:[0][cC]\:[0-9a-fA-F][0-9a-fA-F]\:[0-9a-fA-F][0-9a-fA-
F]\:[0-9a-fA-F][0-9a-fA-F]$ )
microtech=$( echo $mac | egrep
^[0][0]\:[0][0]\:[4][3]\:[0-9a-fA-F][0-9a-fA-F]\:[0-9a-fA-F][0-9a-fA-F
]\:[0-9a-fA-F][0-9a-fA-F]$ )
emc=$( echo $mac | egrep
^[0][0]\:[0][0]\:[9][7]\:[0-9a-fA-F][0-9a-fA-F]\:[0-9a-fA-F][0-9a-fA-F
]\:[0-9a-fA-F][0-9a-fA-F]$ )
apple=$( echo $mac | egrep
^[1][0]\:[4][0]\:[fF][3]\:[0-9a-fA-F][0-9a-fA-F]\:[0-9a-fA-F][0-9a-fA-
F]\:[0-9a-fA-F][0-9a-fA-F]$ )
hp=$( echo $mac | egrep
^[2][Cc]\:[4][1]\:[3][8]\:[0-9a-fA-F][0-9a-fA-F]\:[0-9a-fA-F][0-9a-fA-
F]\:[0-9a-fA-F][0-9a-fA-F]$ )
dell=$( echo $mac | egrep
^[0][0]\:[2][4]\:[Ee][8]\:[0-9a-fA-F][0-9a-fA-F]\:[0-9a-fA-F][0-9a-fA-
F]\:[0-9a-fA-F][0-9a-fA-F]$ )
wire=$( echo $mac | egrep
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^[0][0]\:[0][dD]\:[7][2]\:[0-9a-fA-F][0-9a-fA-F]\:[0-9a-fA-F][0-9a-fA-F]\:[0-9a-fA-F][0-9a-fA-F]$ )
com=$( echo $mac | egrep
^[0][0]\:[1][0]\:[4][Bb]\:[0-9a-fA-F][0-9a-fA-F]\:[0-9a-fA-F][0-9a-fA-F]\:[0-9a-fA-F][0-9a-fA-F]$ )

if [ -z $validate ];
    then
        echo "****YOUR MAC ADDRESS FORMAT IS NOT CORRECT****"
        echo
        echo
        echo "Please follow the format next time you run the script"

    else
        echo "YOUR MAC ADDRESS FORMAT LOOKS FINE"
        echo
        echo
        echo "****PLEASE WAIT WHILE WE FIGURE OUT YOUR MANUFACTURER****"
        echo
        echo
        sleep 1.0
        if [ -z $cisco  ];
        then
            if [ -z $microtech ];
            then
                if [ -z $emc ];
                then
                    if [ -z $apple ];
                    then
                        if [ -z $hp ];
                        then
                            if [ -z $dell ];
                            then
                                if [ -z $wire ];
                                then
                                    if [ -z $com ];
                                    then
                                        echo "Unknown Manufacturer"
                                    else
                                        echo "Manufacturer is 3com"
                                    fi
                                else
                                    echo "Manufacturer is 2wire"
                                fi
                            else
                                echo "Manufacturer is DELL"
                            fi
                        else
                            echo "Manufacturer is HP"
                        fi
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                    else
                         echo "Manufacturer is Apple"
                    fi
               else
                    echo "Manufacturer is EMC"
               fi
          else
               echo "Manufacturer is Microtech"
          fi
     else
          echo "Manufacturer is Cisco"
     fi


fi
echo
echo
```