#!/bin/bash

# ASCII art for welcome to systeminfo

cat << "EOF"

\_ \_ \_ \_ \_\_

| | | | | | (\_) / \_|

\_\_ \_\_\_\_\_| | \_\_\_ \_\_\_ \_ \_\_ \_\_\_ \_\_\_ | |\_ \_\_\_ \_\_\_ \_ \_ \_\_\_| |\_ \_\_\_ \_ \_\_ \_\_\_ \_ \_ \_\_ | |\_ \_\_\_

\ \ /\ / / \_ \ |/ \_\_/ \_ \| '\_ ` \_ \ / \_ \ | \_\_/ \_ \ / \_\_| | | / \_\_| \_\_/ \_ \ '\_ ` \_ \| | '\_ \| \_/ \_ \

\ V V / \_\_/ | (\_| (\_) | | | | | | \_\_/ | || (\_) | \\_\_ \ |\_| \\_\_ \ || \_\_/ | | | | | | | | | || (\_) |

\\_/\\_/ \\_\_\_|\_|\\_\_\_\\_\_\_/|\_| |\_| |\_|\\_\_\_| \\_\_\\_\_\_/ |\_\_\_/\\_\_, |\_\_\_/\\_\_\\_\_\_|\_| |\_| |\_|\_|\_| |\_|\_| \\_\_\_/

\_\_/ |

|\_\_\_/

EOF

# ASCII art for Generator

cat << "EOF"

\_\_\_\_\_ \_

/ \_\_\_\_| | |

| | \_\_ \_\_\_ \_ \_\_ \_\_\_ \_ \_\_ \_\_ \_| |\_ \_\_\_ \_ \_\_

| | |\_ |/ \_ \ '\_ \ / \_ \ '\_\_/ \_` | \_\_/ \_ \| '\_\_|

| |\_\_| | \_\_/ | | | \_\_/ | | (\_| | || (\_) | |

\\_\_\_\_\_|\\_\_\_|\_| |\_|\\_\_\_|\_| \\_\_,\_|\\_\_\\_\_\_/|\_|

EOF

# Color variables

RED='\033[0;31m'

GREEN='\033[0;32m'

YELLOW='\033[0;33m'

BLUE='\033[0;34m'

RESET='\033[0m'

MAGENTA='\033[0;35m'

CYAN='\033[0;36m'

# Making some spacing

echo

echo

echo

# Function to display menu table

display\_menu() {

# Print table header with colored text

printf "${BLUE}%-10s ${RED}%-10s${RESET}\n" "Choice" "Information"

printf "${BLUE}%-10s %-10s${RESET}\n" "-------" "----------------------------------------------"

# Print table rows with colored text

printf "${GREEN}%-10s ${YELLOW}%-10s${RESET}\n" "01" "Currently logged users"

printf "${GREEN}%-10s ${YELLOW}%-10s${RESET}\n" "02" "Your Shell Directory"

printf "${GREEN}%-10s ${YELLOW}%-10s${RESET}\n" "03" "Home Directory"

printf "${GREEN}%-10s ${YELLOW}%-10s${RESET}\n" "04" "OS name & Version"

printf "${GREEN}%-10s ${YELLOW}%-10s${RESET}\n" "05" "Current working directory"

printf "${GREEN}%-10s ${YELLOW}%-10s${RESET}\n" "06" "Number of users logged in"

printf "${GREEN}%-10s ${YELLOW}%-10s${RESET}\n" "07" "Show all available shells in your system"

printf "${GREEN}%-10s ${YELLOW}%-10s${RESET}\n" "08" "Hard disk information"

printf "${GREEN}%-10s ${YELLOW}%-10s${RESET}\n" "09" "CPU information"

printf "${GREEN}%-10s ${YELLOW}%-10s${RESET}\n" "10" "Memory information"

printf "${GREEN}%-10s ${YELLOW}%-10s${RESET}\n" "11" "File system information"

printf "${GREEN}%-10s ${YELLOW}%-10s${RESET}\n" "12" "Currently running process"

printf "${GREEN}%-10s ${YELLOW}%-10s${RESET}\n" "Quit" "Exit from the tool"

}

# Loop until user enters 'q' or 'quit'

while true; do

# Display the menu

display\_menu

echo

# Read choice from the user

read -p "Enter your choice: " choice

# Convert choice to lowercase

choice=$(echo "$choice" | tr '[:upper:]' '[:lower:]')

# Check if the choice is 'q' or 'quit' to quit

if [[ $choice == "q" || $choice == "quit" ]]; then

break

fi

# Remove leading zeros from the choice eg. 01

choice=$(echo "$choice" | sed 's/^0\*//')

# Compare the choice and perform actions using case statement

case $choice in

1)

# Check currently logged-in users

logged\_in\_users=$(who | cut -d' ' -f1)

# Print the list of logged-in users

echo

echo "Currently logged-in users:"

echo -e "${BLUE}$logged\_in\_users${RESET}"

echo

;;

2)

# Retrieve the shell directory

shell\_directory=$(echo $SHELL)

# Print the shell directory

echo

echo -e "Your shell directory is: ${BLUE}$shell\_directory${RESET}"

echo

;;

3)

# Retrieve the home directory

home\_directory=~

# Print the home directory

echo

echo -e "Your home directory is: ${BLUE}$home\_directory${RESET}"

echo

;;

4)

# Retrieve the OS name and version from release files

os\_name=$(cat /etc/os-release | grep -oP 'NAME="\K[^"]+')

os\_version=$(cat /etc/os-release | grep -oP 'VERSION\_ID="\K[^"]+')

# Print the OS name and version

echo

echo -e "Operating System: ${RED}$os\_name${RESET}"

echo -e "Version: ${GREEN}$os\_version${RESET}"

echo

;;

5)

# Retrieve the current working directory

current\_directory=$(pwd)

# Print the current working directory

echo

echo -e "Current working directory: ${BLUE}$current\_directory${RESET}"

echo

;;

6)

# Retrieve the number of users logged in

num\_users=$(who | wc -l)

# Print the number of users logged in

echo

echo -e "Number of users logged in: ${MAGENTA}$num\_users${RESET}"

echo

;;

7)

# Retrieve and display available shells

echo

echo -e "${CYAN}Available shells:${RESET}"

cat /etc/shells

echo

;;

8)

# Retrieve hard disk information using lsblk

hard\_disk\_info=$(lsblk)

# Print hard disk information

echo

echo "Hard Disk Information:"

echo "$hard\_disk\_info"

echo

;;

9)

# Retrieve CPU information using lscpu

cpu\_info=$(lscpu)

# Print CPU information

echo

echo "CPU Information:"

echo "$cpu\_info"

echo

;;

10)

# Retrieve memory information using free

memory\_info=$(free -h)

# Print memory information

echo

echo "Memory Information:"

echo "$memory\_info"

echo

;;

11)

# Retrieve file system information using df

file\_system\_info=$(df -h)

# Print file system information

echo

echo "File System Information:"

echo "$file\_system\_info"

echo

;;

12)

# Retrieve currently running processes using ps

processes=$(ps aux)

# Print currently running processes

echo

echo "Currently Running Processes:"

echo "$processes"

echo

;;

\*)

echo

echo -e "${RED}Invalid choice${RESET}"

echo

;;

esac

done