1. sys_info.sh

```bash
#!/bin/bash


#Check if script was run as root. Exit if true.
if [ $UID -eq 0 ]; then
  echo "Please do not run this script as root."
  exit
fi


# Define Variables
output=$HOME/research/sys_info.txt
ip=$(ip addr | grep inet | tail -2 | head -1)
execs=$(sudo find /home -type f -perm 777 2>/dev/null)


# Check for research directory. Create it if needed.
if [ ! -d $HOME/research ]; then
  mkdir $HOME/research
fi


# Check for output file. Clear it if needed.
if [ -f $output ]; then
  rm $output
fi


echo "A Quick System Audit Script" >>$output
date >>$output
echo "" >>$output
echo "Machine Type Info:" >>$output
echo -e "$MACHTYPE \n" >>$output
```

```
echo -e "Uname info: $(uname -a) \n" >>$output

echo -e "IP Info:" >>$output

echo -e "$ip \n" >>$output

echo -e "Hostname: $(hostname -s) \n" >>$output

echo "DNS Servers: " >>$output

cat /etc/resolv.conf >>$output

echo -e "\nMemory Info:" >>$output

free >>$output

echo -e "\nCPU Info:" >>$output

lscpu | grep CPU >>$output

echo -e "\nDisk Usage:" >>$output

df -H | head -2 >>$output

echo -e "\nWho is logged in: \n $(who -a) \n" >>$output

echo -e "\nexec Files:" >>$output

echo $execs >>$output

echo -e "\nTop 10 Processes" >>$output

ps aux --sort -%mem | awk {'print $1, $2, $3, $4, $11'} | head >>$output
```