

```
#!/bin/bash
```

```
# System Information Option, sys
```

```
if [ "$1" == "sys" ]; then
```

```
echo -e "-----System Information-----"
```

```
# Hostname
```

```
echo -e "Hostname:\t\t" hostname`
```

```
# Uptime
```

```
echo -e "uptime:\t\t\t" uptime -p | sed 's/up //'`
```

```
# Manufacturer
```

```
echo -e "Manufacturer:\t\t" cat /sys/class/dmi/id/chassis_vendor`
```

```
# Product name
```

```
echo -e "Product name:\t\t" cat /sys/class/dmi/id/product_name`
```

```
# Version
```

```
echo -e "Version:\t\t" cat /sys/class/dmi/id/product_version`
```

```
# Machine Type
```

```
echo -e "Machine Type:\t\t" vserver=$(lscpu | grep Hypervisor | wc -l); if [ $vserver -gt 0 ]; then echo "VM"; else echo "Physical"; fi`
```

```
# Operating System
```

```
echo -e "Operating System:\t" lsb_release -d | sed 's/Description:\t//`
```

```
# Kernel Version
```

```
echo -e "Kernel:\t\t\t" uname -s`
```

```
# Architecture
```

```
echo -e "Architecture:\t\t" arch`
```

```
# Processor Name
```

```
echo -e "Processor Name:\t\t" awk -F: ' /^model name/ {print $2}' /proc/cpuinfo | uniq | sed -e 's/^[ \t]*//`
```

```
# Active User
```

```
echo -e "Active User:\t\t" users`
```

```
# Main System IP Address
```

```
echo -e "Main System IP:\t\t" hostname -I`
```

```
#Memory Option, mem
```

```
elif [ "$1" == mem ]; then
```

```
echo -e "-----CPU/Memory Usage-----"
```

```
# Displays the CPU/Memory Usage (free)
```

```
free
```

```
echo
```

```
# Display memory usage percentage
```

```
printf "%s%.2f%s" "Memory Usage:  " $(free | awk 'NR==2 {mem_used = $3/$2; print mem_used*100;}') "%"
```

```
echo
```

```
# Display swap usage percentage
```

```
printf "%s%.2f%s" "Swap Usage:  " $(free | awk 'NR==2 {mem_used = $3/$2; print mem_used*100;}') "%"
```

```
echo
```

```
# Display CPU usage percentage
```

```
echo -e "CPU Usage:  " `cat /proc/stat | awk '/cpu/{printf("%.2f%%\n")', ($2+$4)*100/($2+$4+$5)}' | awk '{print $0}' | head -1`
```

```
elif [ "$1" == disk ]; then
```

```
echo -e "-----Disk Usage-----"
```

```
# Display disk usage
```

```
df -h | awk '$NF=="/" {printf "Disk Usage: %s\t\t\n", $5}'
```

```
# Display file systems
```

```
df -h
```

```
# Error handling - Incorrect option provided
```

```
elif [ "$1" == "" ]; then
```

```
echo -e "Usage: sysInfo <sys|mem|disk>"
```

```
# Error handling - Invalid option provided
```

```
else
```

```
echo -e "Error, invalid parameter."
```

```
fi
```