SECTION A

Created script named: internsct1



Write code

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                                                              internsctl
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                                                      ding not supported
   --help)
display help
     display_manual
```

CODE

```
#!/bin/bash
# Define the command version
command_version="v0.1.0"
# Function to display command manual
display_manual() {
  echo "INTENSCTL(1)
                               User Commands
                                                             INTENSCTL(1)"
  echo ""
```

```
echo "NAME"
  echo "
           internsctl - Custom command for XYZ operations"
  echo ""
  echo "SYNOPSIS"
  echo "
           internsctl [OPTIONS]"
  echo ""
  echo "DESCRIPTION"
           This command performs XYZ operations."
  echo "
  echo ""
  # Add more sections and descriptions as needed for your command
}
# Function to display command help
display_help() {
  echo "Usage: internsctl [OPTIONS]"
  echo ""
  echo "Options:"
  echo" --help
                   Display this help message"
  echo " --version Show command version"
  echo ""
  # Add more help information as needed for your command
}
# Parse command-line options
case "$1" in
  --help)
    display_help
    ;;
  --version)
    echo "internsctl $command_version"
    ;;
```

```
*)
display_manual
;;
esac
```

1. Set execution permissions: Make the script executable using the chmod command:

chmod +x internsctl

Run the script:

1.To view the manual, use man ./internsctl

```
File Actions Edit View Help
#//bin/bash
# Define the command version command_version="v0.1.0"
# Function to display command manual display_manual() {

# Function to display command manual display_manual() {

# NITERCIT(1)*

# Scho **

# Scho
```

2.To get help, execute ./internsctl --help.

3.To check the version, run ./internsctl --version

```
root@windows)-[/home/kali]
./internsctl — version
internsctl v0.1.0
                ndows)-[/home/kali]
```

```
SECTION B
<u>CODE</u>
#!/bin/bash
# Define the command version
command_version="v0.1.0"
# Function to display command manual
display_manual() {
  echo "INTENSCTL(1)
                          User Commands
                                                               INTENSCTL(1)"
  echo ""
  echo "NAME"
  echo "
           internsctl - Custom command for XYZ operations"
  echo ""
  echo "SYNOPSIS"
  echo "
           internsctl [OPTIONS]"
  echo ""
  echo "DESCRIPTION"
  echo "
           This command performs XYZ operations."
  echo ""
}
# Function to display command help
display_help() {
  echo "Usage: internsctl [OPTIONS]"
```

```
echo ""
  echo "Options:"
  echo" --help
                    Display this help message"
  echo " --version
                     Show command version"
  echo ""
  echo "Part1"
  echo " internsctl cpu getinfo Display CPU information (similar to Iscpu)"
  echo " internsctl memory getinfo Display memory information (similar to free)"
  echo ""
  echo "Part2"
  echo " internsctl user create <username>
                                              Create a new user with home directory access"
  echo " internsctl user list
                                    List all regular users"
  echo " internsctl user list --sudo-only
                                          List users with sudo permissions"
  echo ""
  echo "Part3"
  echo " internsctl file getinfo <file-name> Get detailed file information"
  echo " Options:"
  echo" --size, -s
                          Print file size"
  echo " --permissions, -p
                               Print file permissions"
  echo" --owner, -o
                            Print file owner"
  echo " --last-modified, -m Print last modified time"
  echo ""
  # Add more help information as needed for your command
# Function to handle CPU information retrieval
get_cpu_info() {
  Iscpu
```

}

}

```
# Function to handle memory information retrieval
get_memory_info() {
  free
}
# Function to create a new user
create_user() {
  if [ "$#" -ne 1 ]; then
    echo "Usage: internsctl user create <username>"
    exit 1
  fi
  sudo useradd -m "$1"
}
# Function to list all regular users
list_users() {
  cut -d: -f1 /etc/passwd
}
# Function to list users with sudo permissions
list_sudo_users() {
  grep -Po '^sudo.+:\K.*$' /etc/group | tr ',' '\n'
}
# Function to get file information
get_file_info() {
  if [ "$#" -lt 2 ]; then
    echo "Usage: internsctl file getinfo [options] <file-name>"
    exit 1
  fi
```

```
# Check if the file exists
if [ ! -e "$file_name" ]; then
  echo "File not found: $file_name"
  exit 1
fi
echo "File: $file_name"
# Parse options
while [ "$#" -gt 1 ]; do
  case "$1" in
    --size | -s)
      echo -n "Size(B): "
      stat -c "%s" "$file_name"
      ;;
    --permissions|-p)
      echo -n "Access: "
      stat -c "%A" "$file_name"
      ;;
    --owner|-o)
      echo -n "Owner: "
      stat -c "%U" "$file_name"
      ;;
    --last-modified|-m)
      echo -n "Modify: "
      stat -c "%y" "$file_name"
      ;;
    *)
      echo "Invalid option: $1"
```

```
;;
    esac
    shift
  done
}
# Parse command-line options
case "$1" in
  cpu)
    shift
    get_cpu_info
    ;;
  memory)
    shift
    get_memory_info
    ;;
  user)
    shift
    case "$1" in
      create)
        shift
        create_user "$@"
        ;;
      list)
        shift
        if [ "$1" = "--sudo-only" ]; then
          list_sudo_users
        else
          list_users
        fi
```

```
;;
      *)
         display\_help
         ;;
    esac
    ;;
  file)
    shift
    if [ "$1" = "getinfo" ]; then
      shift
      get_file_info "$@"
    else
      display_help
    fi
    ;;
  --help)
    display_help
    ;;
  --version)
    echo "internsctl $command_version"
    ;;
  *)
    display_manual
    ;;
esac
```

Part A

To get the Cpu information- ./internsctl cpu getinfo

Get memory information - ./internsctl memory getinfo

part 2

Create new user - ./internsctl user create admin

```
(root@ windows)-[/home/kali]
//internsctl user list
root
daemon
bin
sys
sync
games
man
lp
mail
news
uucp
proxy
www-data
backup
list
irc
gnats
nobody
systemd-network
systemd-resolve
_apt
mysql
tss
strongswan
systemd-timesync
redsocks
rwhod
iodine
messagebus
miredo
_rpc
usbmux
tcpdump
rtkit
```

```
dnsmasq
statd
avahi
nm-openvpn
stunnel4
nm-openconnect
Debian-snmp
speech-dispatcher
sslh
postgres
pulse
saned
inetsim
lightdm
colord
geoclue
king-phisher
kali
new_username
admin
```

To List user with user permission-./internsctl user list --sudo-only

```
(root@ windows)-[/home/kali]
kali
(root@ windows)-[/home/kali]
```

Part 3

Get file information- ./internsctl file getinfo filename

```
-[/home/kali]
    ./internsctl file getinfo internsctl
File: internsctl
  File: internsctl
Size: 4462
                                                    IO Block: 4096 regular file
                             Blocks: 16
                         Inode: 4854545
Device: 801h/2049d
                                                   Links: 1
Access: (0755/-rwxr-xr-x) Uid: ( 0/
                                                   root)
                                                             Gid: ( 0/
                                                                                 root)
Access: 2024-01-10 06:23:08.187470772 -0500 Modify: 2024-01-10 06:23:01.402231814 -0500 Change: 2024-01-10 06:23:01.410246434 -0500
 Birth: 2024-01-10 06:23:01.390209885 -0500
             windows)-[/home/kali]
```

For specific information- ./internsctl file getinfo --size --permissions --owner --last-modified internsctl