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SE-4-D
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EXPERIMENT N0-2

Aim: Write shell scripts to do the following:

1: Display top 10 processes in descending order

CODE:

```
echo The top 10 processes in descending order are :
ps -e | sort -r | head -10
```

OUTPUT:

```
The top 10 processes in descending order are :
  PID TTY          TIME CMD
    8 ?        00:00:00 time
    7 ?        00:00:00 bash
   17 ?        00:00:00 head
   16 ?        00:00:00 sort
   15 ?        00:00:00 ps
   14 ?        00:00:00 bash
    1 ?        00:00:00 timeout
```

2: Display processes with highest memory usage.

CODE:

```
echo Processes with highest memory usage
ps aux | sort -k 4nr | head
```

OUTPUT:

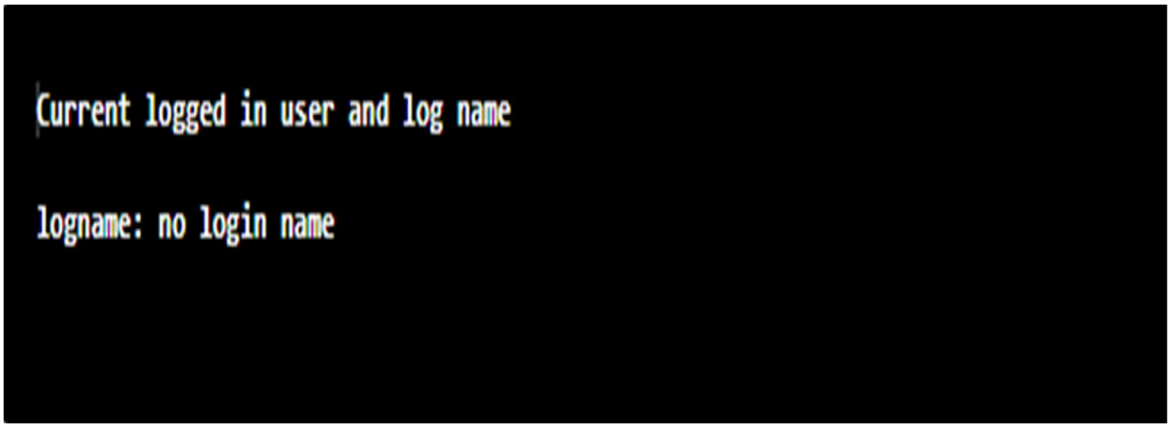
```
Processes with highest memory usage
root         1  0.0  0.0   5496   768 ?        Ss   09:45   0:00 timeout --kill-after=1 15 bash
root        14  0.0  0.0   7128  3508 ?        S    09:45   0:00 bash jdoodle.sh
root        15  0.0  0.0  12848  3248 ?        R    09:45   0:00 ps aux
root        16  0.0  0.0    248     4 ?        D    09:45   0:00 [sort]
root        17  0.0  0.0   5308   768 ?        S    09:45   0:00 head
root         7  0.0  0.0   7128  2984 ?        S    09:45   0:00 bash
root         8  0.0  0.0   2184   704 ?        Ss   09:45   0:00 /usr/bin/time -f
```

3: Display current logged in user and log name

CODE:

```
echo Current logged in user and log name
logname
```

OUTPUT:

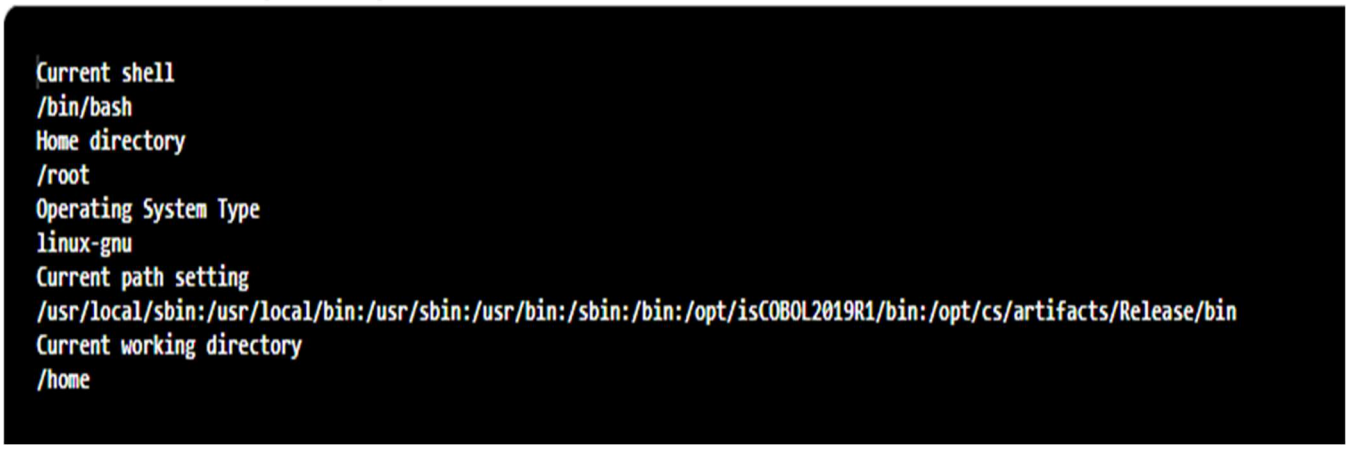


4: Display current shell, home directory, operating system type, current path setting, current working directory.

CODE:

```
echo Current shell
echo $SHELL
echo Home directory
echo $HOME
echo Operating System Type
echo $OSTYPE
echo Current path setting
echo $PATH
echo Current working directory
echo $PWD
```

OUTPUT:



5: Display OS version, release number, kernel version

CODE:

```
echo OS version
uname -o
echo Release number
uname -r
echo kernel version
uname -v
```

OUTPUT: