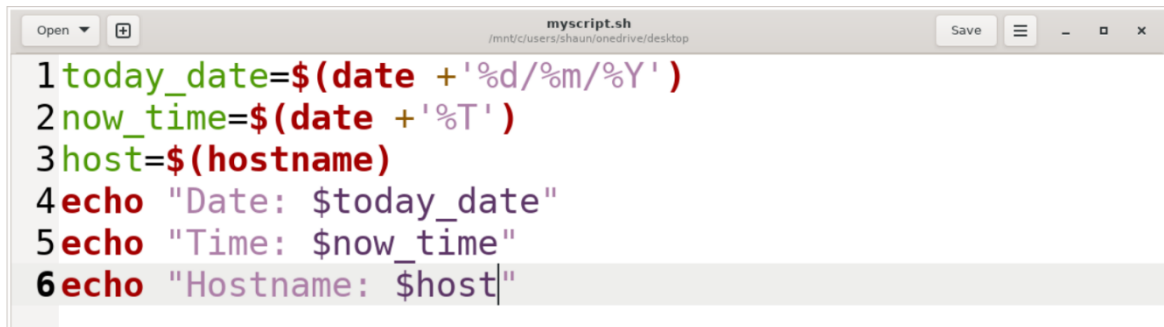


Assignment 2

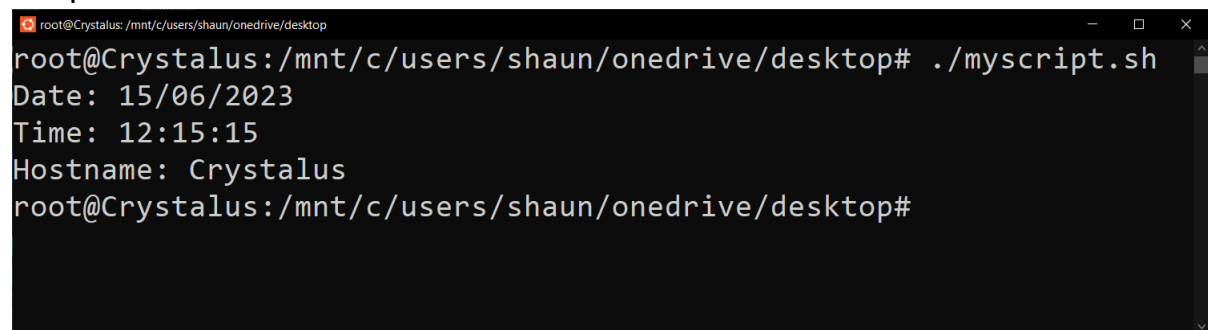
Write a shell script to print present date, time and hostname:

Code:



```
1 today_date=$(date +%d/%m/%Y)
2 now_time=$(date +%T)
3 host=$(hostname)
4 echo "Date: $today_date"
5 echo "Time: $now_time"
6 echo "Hostname: $host"
```

Output:



```
root@Crystalus: /mnt/c/users/shaun/onedrive/desktop# ./myscrip.sh
Date: 15/06/2023
Time: 12:15:15
Hostname: Crystalus
root@Crystalus: /mnt/c/users/shaun/onedrive/desktop#
```

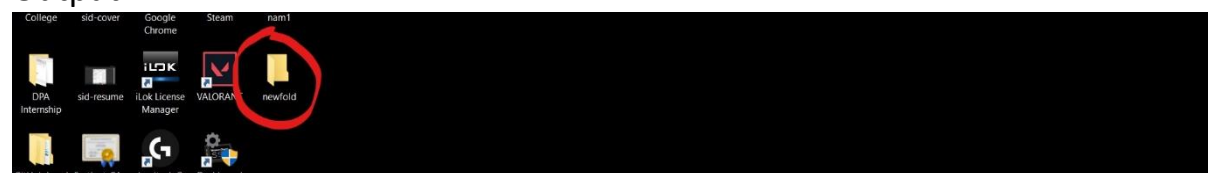
Write a shell script which creates a directory and gives 756 permissions for it.

Code:



```
1 mkdir ./newfold
2 chmod 777 ./newfold
```

Output:



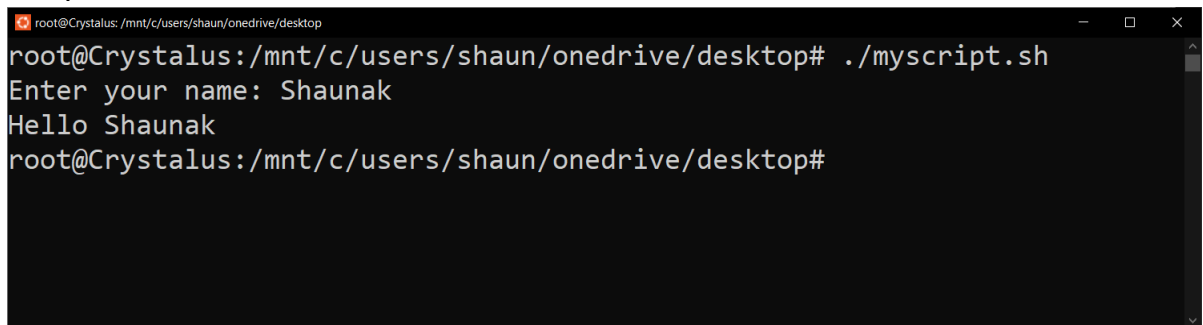
Write a shell script to take your name as input and print “Hello <name>”.

Code:



```
1 read -p "Enter your name: " name
2 echo "Hello $name"
```

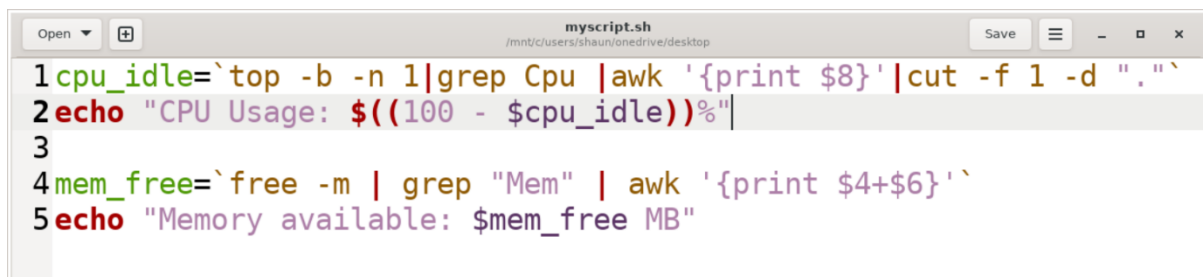
Output:



```
root@Crystalus: /mnt/c/users/shaun/onedrive/desktop
root@Crystalus: /mnt/c/users/shaun/onedrive/desktop# ./myscript.sh
Enter your name: Shaunak
Hello Shaunak
root@Crystalus: /mnt/c/users/shaun/onedrive/desktop#
```

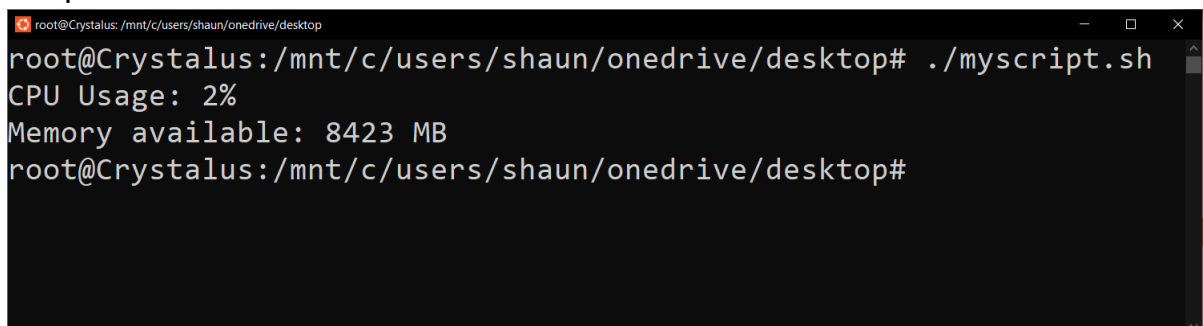
Write a shell script to show free RAM memory and CPU in system.

Code:



```
1 cpu_idle=`top -b -n 1|grep Cpu |awk '{print $8}'|cut -f 1 -d "."`
2 echo "CPU Usage: $((100 - $cpu_idle))%"
3
4 mem_free=`free -m | grep "Mem" | awk '{print $4+$6}'`
5 echo "Memory available: $mem_free MB"
```

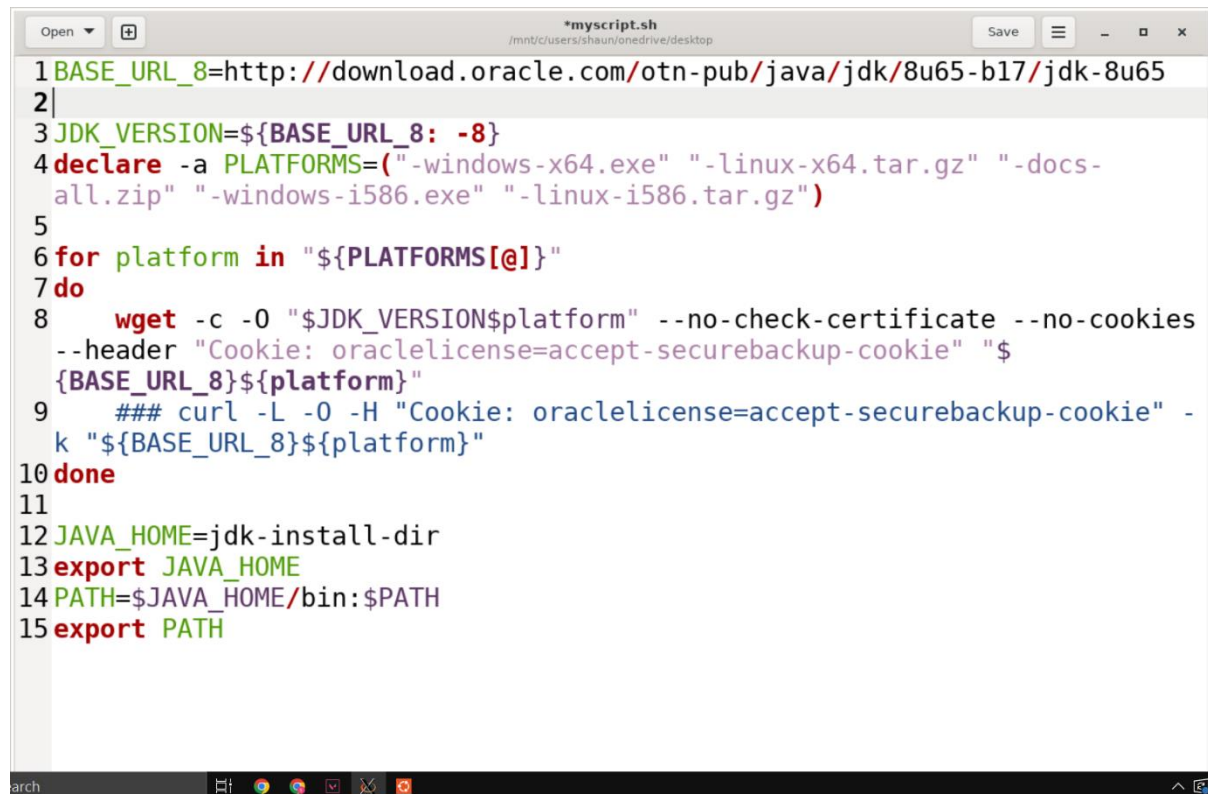
Output:



```
root@Crystalus: /mnt/c/users/shaun/onedrive/desktop
root@Crystalus: /mnt/c/users/shaun/onedrive/desktop# ./myscript.sh
CPU Usage: 2%
Memory available: 8423 MB
root@Crystalus: /mnt/c/users/shaun/onedrive/desktop#
```

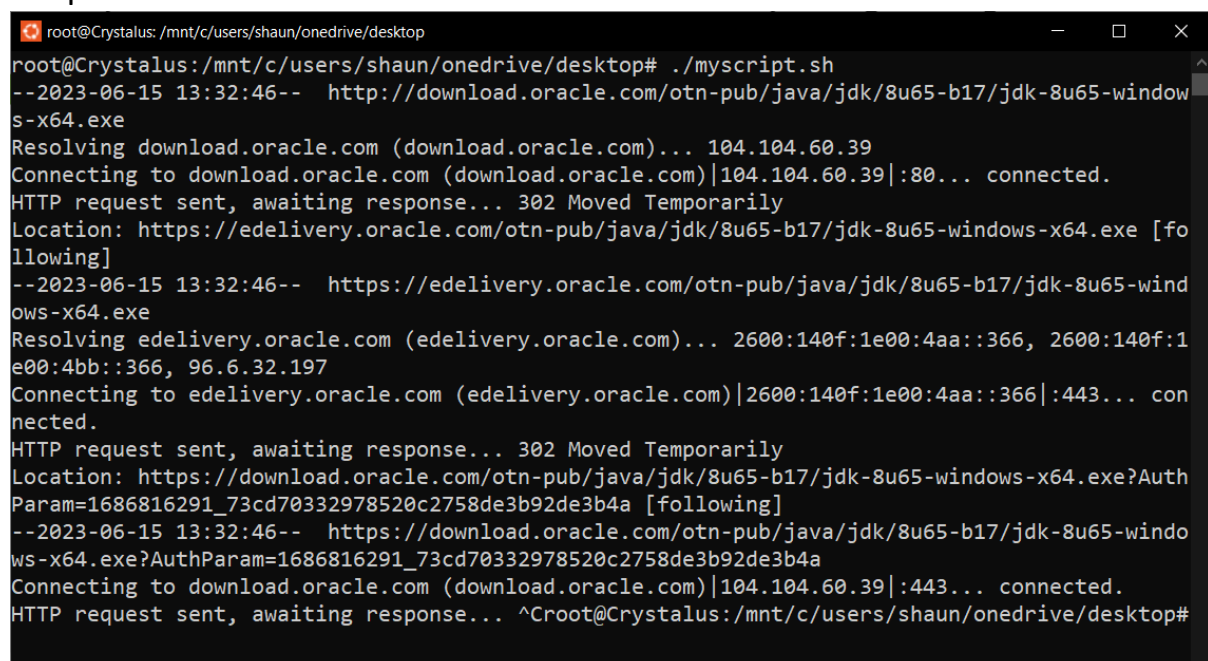
Write a shell script to download JAVA zip package and set JAVA home.

Code:

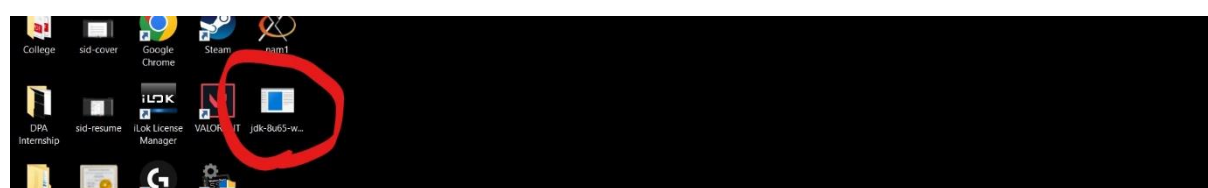


```
1 BASE_URL_8=http://download.oracle.com/otn-pub/java/jdk/8u65-b17/jdk-8u65
2 |
3 JDK_VERSION=${BASE_URL_8: -8}
4 declare -a PLATFORMS=("-windows-x64.exe" "-linux-x64.tar.gz" "-docs-
  all.zip" "-windows-i586.exe" "-linux-i586.tar.gz")
5
6 for platform in "${PLATFORMS[@]}"
7 do
8     wget -c -O "$JDK_VERSION$platform" --no-check-certificate --no-cookies
  --header "Cookie: oraclelicense=accept-securebackup-cookie" "$
  {BASE_URL_8}${platform}"
9     ### curl -L -O -H "Cookie: oraclelicense=accept-securebackup-cookie" -
  k "${BASE_URL_8}${platform}"
10 done
11
12 JAVA_HOME=jdk-install-dir
13 export JAVA_HOME
14 PATH=$JAVA_HOME/bin:$PATH
15 export PATH
```

Output:



```
root@Crystalus: /mnt/c/users/shaun/onedrive/desktop
root@Crystalus:/mnt/c/users/shaun/onedrive/desktop# ./myscript.sh
--2023-06-15 13:32:46-- http://download.oracle.com/otn-pub/java/jdk/8u65-b17/jdk-8u65-window
s-x64.exe
Resolving download.oracle.com (download.oracle.com)... 104.104.60.39
Connecting to download.oracle.com (download.oracle.com)|104.104.60.39|:80... connected.
HTTP request sent, awaiting response... 302 Moved Temporarily
Location: https://edelivery.oracle.com/otn-pub/java/jdk/8u65-b17/jdk-8u65-windows-x64.exe [fo
llowing]
--2023-06-15 13:32:46-- https://edelivery.oracle.com/otn-pub/java/jdk/8u65-b17/jdk-8u65-wind
ows-x64.exe
Resolving edelivery.oracle.com (edelivery.oracle.com)... 2600:140f:1e00:4aa::366, 2600:140f:1
e00:4bb::366, 96.6.32.197
Connecting to edelivery.oracle.com (edelivery.oracle.com)|2600:140f:1e00:4aa::366|:443... con
nected.
HTTP request sent, awaiting response... 302 Moved Temporarily
Location: https://download.oracle.com/otn-pub/java/jdk/8u65-b17/jdk-8u65-windows-x64.exe?Auth
Param=1686816291_73cd70332978520c2758de3b92de3b4a [following]
--2023-06-15 13:32:46-- https://download.oracle.com/otn-pub/java/jdk/8u65-b17/jdk-8u65-windo
ws-x64.exe?AuthParam=1686816291_73cd70332978520c2758de3b92de3b4a
Connecting to download.oracle.com (download.oracle.com)|104.104.60.39|:443... connected.
HTTP request sent, awaiting response... ^Croot@Crystalus:/mnt/c/users/shaun/onedrive/desktop#
```



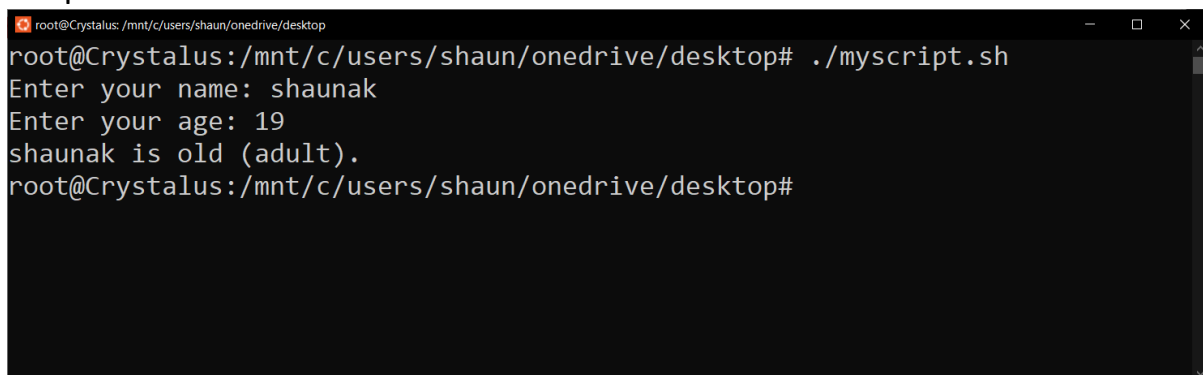
Write a shell script to ask for name and age, then it show output whether he/she is young or old.

Code:



```
1 read -p "Enter your name: " name
2 read -p "Enter your age: " age
3 if [ $age -lt 18 ];
4 then
5 echo "$name is young (not adult)."
6 else
7 echo "$name is old (adult)."
8 fi
```

Output:



```
root@Crystalus: /mnt/c/users/shaun/onedrive/desktop
root@Crystalus:/mnt/c/users/shaun/onedrive/desktop# ./myscript.sh
Enter your name: shaunak
Enter your age: 19
shaunak is old (adult).
root@Crystalus:/mnt/c/users/shaun/onedrive/desktop#
```

Write a shell script to create a file with name as “myfile” and content as “Hello Guys”.

Code:



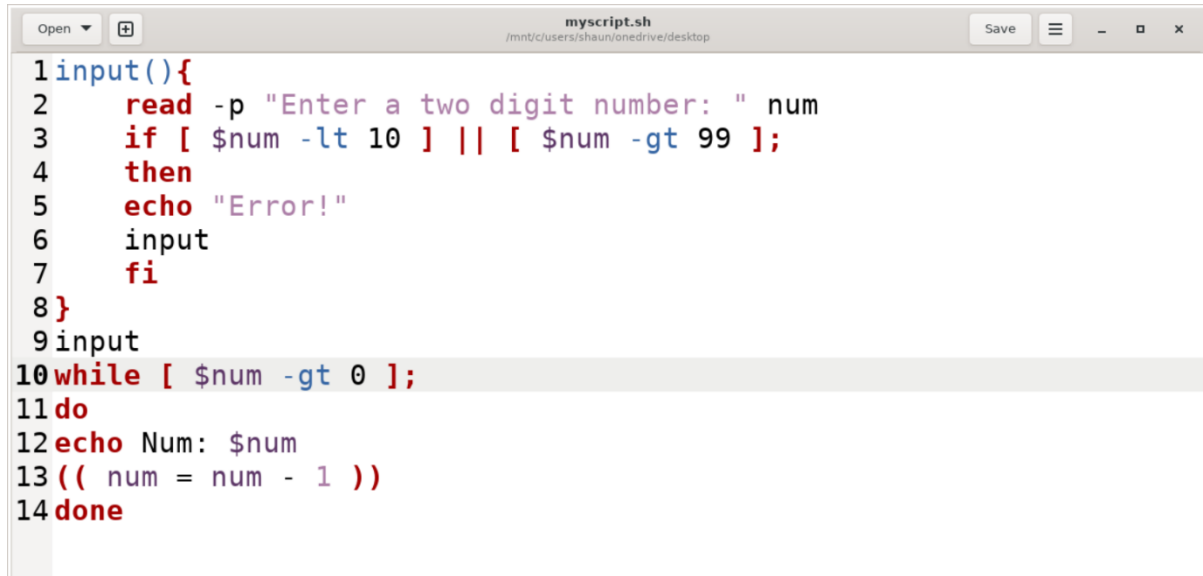
```
1 echo "Hello Guys" >> myfile.txt
```

Output:



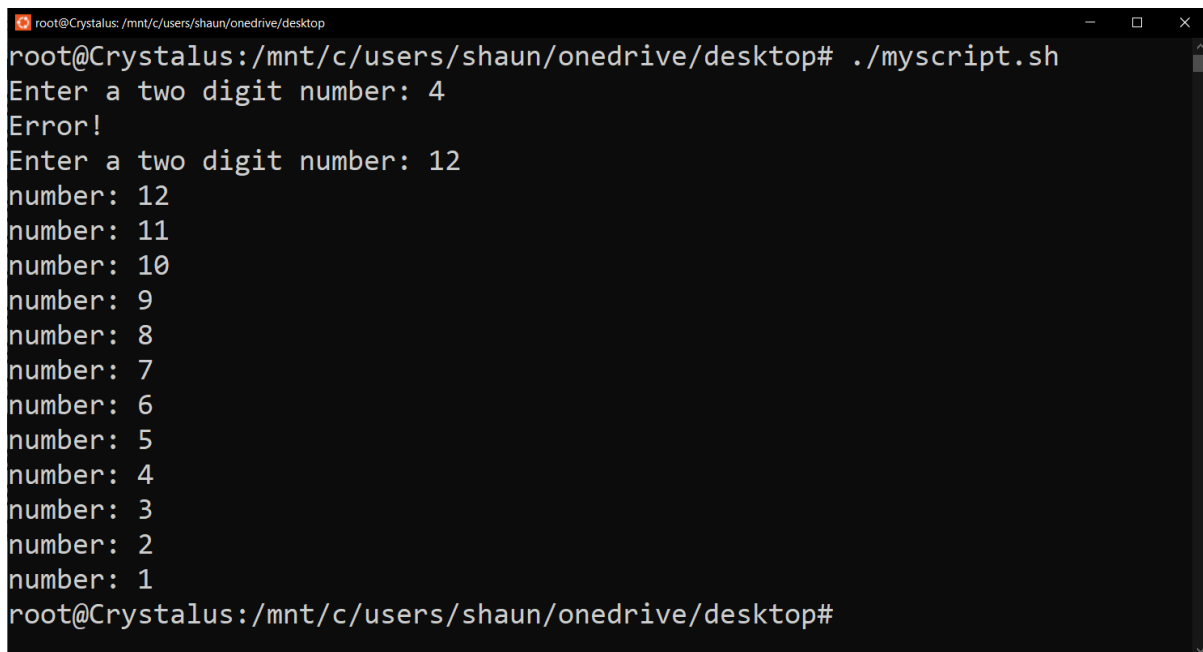
Write a script to ask for a two-digit number and then countdown to 0.

Code:



```
1 input(){
2     read -p "Enter a two digit number: " num
3     if [ $num -lt 10 ] || [ $num -gt 99 ];
4     then
5         echo "Error!"
6         input
7     fi
8 }
9 input
10 while [ $num -gt 0 ];
11 do
12     echo Num: $num
13     (( num = num - 1 ))
14 done
```

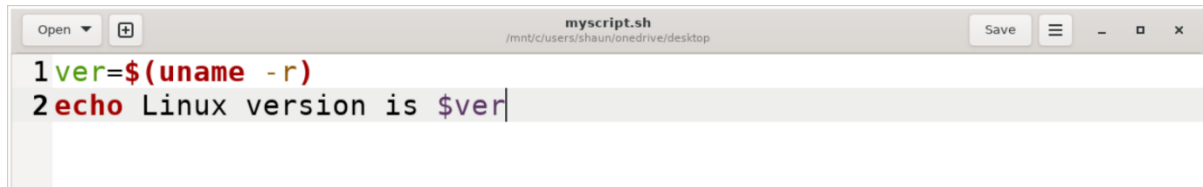
Output:



```
root@Crystalus: /mnt/c/users/shaun/onedrive/desktop
root@Crystalus:/mnt/c/users/shaun/onedrive/desktop# ./myscript.sh
Enter a two digit number: 4
Error!
Enter a two digit number: 12
number: 12
number: 11
number: 10
number: 9
number: 8
number: 7
number: 6
number: 5
number: 4
number: 3
number: 2
number: 1
root@Crystalus:/mnt/c/users/shaun/onedrive/desktop#
```

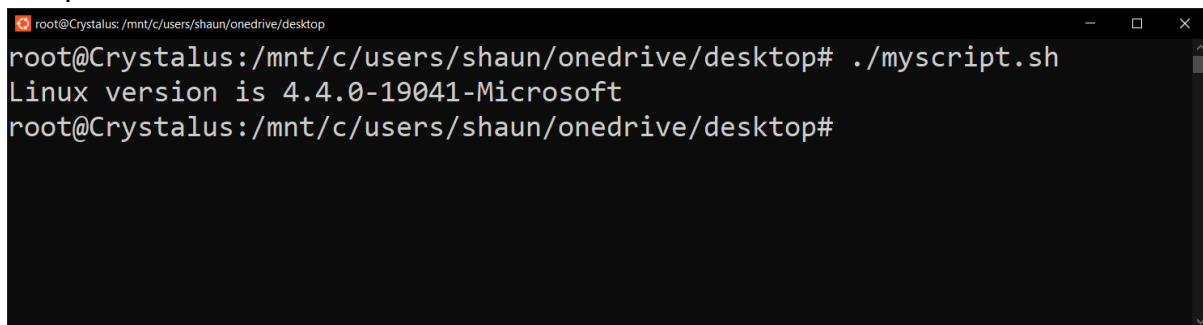
Write a script to find the Linux version as “Linux Version is <version>”.

Code:



```
1 ver=$(uname -r)
2 echo Linux version is $ver
```

Output:



```
root@Crystalus: /mnt/c/users/shaun/onedrive/desktop
root@Crystalus:/mnt/c/users/shaun/onedrive/desktop# ./myscript.sh
Linux version is 4.4.0-19041-Microsoft
root@Crystalus:/mnt/c/users/shaun/onedrive/desktop#
```

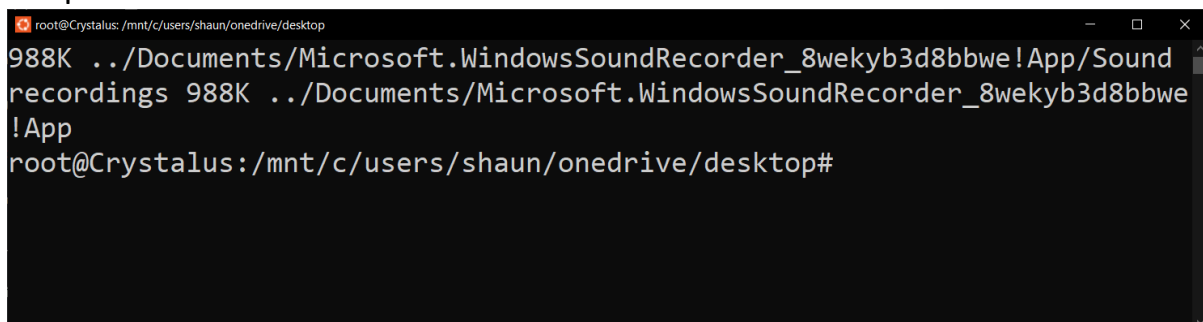
Write a shell script to find the largest file in the system and print the filename and file path.

Code:



```
1 file=$(sudo du -h -a ../ | sort -n -r | head -n 1)
2 echo $file
```

Output:



```
root@Crystalus: /mnt/c/users/shaun/onedrive/desktop
988K ../Documents/Microsoft.WindowsSoundRecorder_8wekyb3d8bbwe!App/Sound
recordings 988K ../Documents/Microsoft.WindowsSoundRecorder_8wekyb3d8bbwe
!App
root@Crystalus:/mnt/c/users/shaun/onedrive/desktop#
```