9a) AIM: Write shell script that takes a login name as command – line argument and reports when that person logs in.

PROGRAM:

echo "who are you?"

read user

echo \$user

name=\$(whoami)

if [\$user == \$name]

then

top -u \$user

else

echo "not signed in"

fi

output:

```
[20A91A05B6@Linux ~]$ sh 9a.sh
who are you?
20A91A05B6
20A91A05B6
top - 06:39:39 up 86 days, 14:35, 39 users, load average: 0.43, 0.48, 0.37 Tasks: 329 total, 1 running, 316 sleeping, 12 stopped, 0 zombie
Cpu(s): 1.7%us, 0.5%sy, 0.0%ni, 97.6%id, 0.3%wa, 0.0%hi, 0.0%si, 0.0%st
Mem: 3096308k total, 2191700k used, 904608k free, 529464k buffers
Swap: 9215996k total,
                               126212k used,
                                                                      1147680k cached
                                                  9089784k free,
  PID USER
                             VIRT
                                     RES
                                            SHR S %CPU %MEM
                                                                    TIME+ COMMAND
                    PR NI
 14971 20A91A05
                                                                   0:00.71 top
                              2848 1244
                                            868 R
13296 20A91A05
                          0 12292 1672
                                           920 S 0.0 0.1
                                                                   0:00.06 sshd
13297 20A91A05
                                                                  0:00.02 bash
 14963 20A91A05
```

9b)AIM: Write a shell script which receives two file names as arguments. It should check whether the two file contents are same or not. If they are same then second file should be deleted.

```
Program:

echo -n"enter file2"

read file1

echo -n "enter file2"

read file2

diff $file1 $file2

r=`echo $?`

if [ $r != 0 ]

then

echo "different"

else

echo "same"

rm $file2

fi
```

output:

```
[20A91A05B6@Linux ~] $ sh 9b.sh
enter fileibts
8d7

different
[20A91A05B6@Linux ~] $ cp bts bts3
[20A91A05B6@Linux ~] $ cat bts3

jin
suga
]hope
jamin
v
jk
[20A91A05B6@Linux ~] $ sh 9b.sh
enter fileibts
enter f
```

10)AIM:

Write a C program that takes one or more file or directory names as a command line input and reports the following information on the file: i) File type. ii) Number of links. iii) Read, write and execute permissions. iv) Time of last access (Note: Use stat/fstat system calls)

```
Program:
#include<stdio.h>
#include<unistd.h>
#include<sys/stat.h>
#include<fcntl.h>
void main()
{
int fd;
struct stat buf;
fd=open("newl.txt",O_RDONLY|O_CREAT,600);
if(fd!=-1)
{
if(fstat(fd,&buf)==0)
printf("mode of files %u",buf.st_mode);
printf("\n size of the file is %u ",buf.st_size);
printf("\n device name %u",buf.st_dev);
printf("\n inode of file is%u",buf.st_ino);
printf("\n no of links are %u ",buf.st_nlink);
printf("\n owner of a file %u",buf.st_uid);
printf("\n no of blocks is %u",buf.st_blocks);
```

```
printf("\n group owner is %u ",buf.st_gid);
printf("\n block size of the file is %u ",buf.st_blksize);
printf("\n tim of last modifields %u ",buf.st_ctime);
}
else
printf("error in fstat() syscall");
}
else
printf("error in open()syscall");
}
```

Output:

```
[20A91A05B6@Linux ~]$ vi filedetails.c
[20A91A05B6@Linux ~]$ cc filedetails.c
[20A91A05B6@Linux ~]$ ./a.out
mode of files 33368
  size of the file is 0
  device name 2054
  inode of file is127100
  no of links are 1
  owner of a file 9372
  no of blocks is 0
  group owner is 9373
  block size of the file is 4096
  tim of last modifields 1639452681 [20A91A05B6@Linux ~]$
```