**LINUX PROGRAMMING**

PRACTICE QUESTIONS

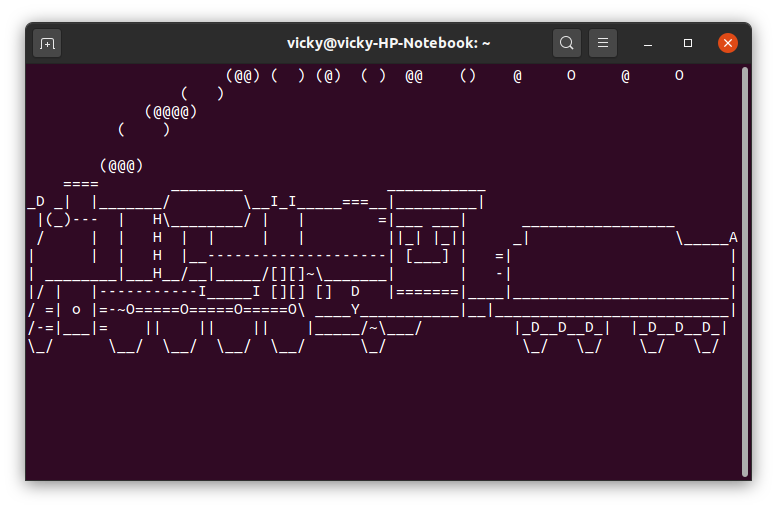
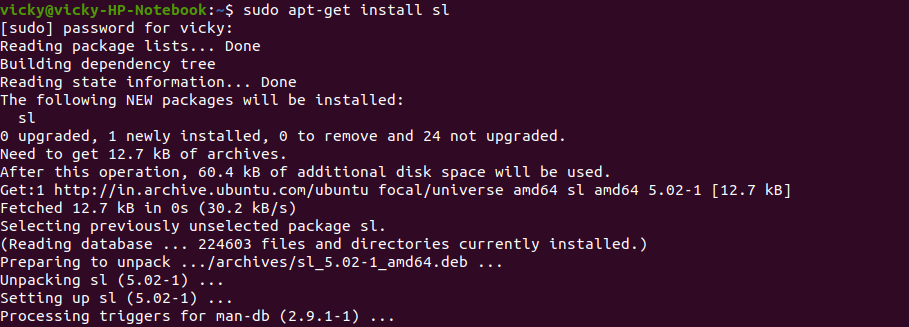
**NAME: VIGNESHWARAN.P**

**REGNO: 16MIS1143**

**1. Script 1**

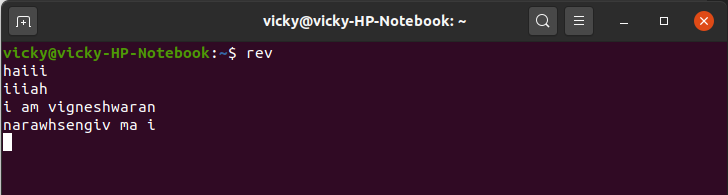
sudo apt-get install sl

sl

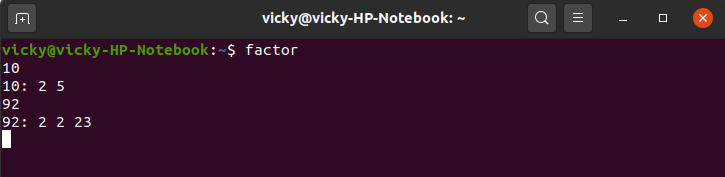


**2. Script 2**

rev



factor



yes



**ADDITIONAL QUESTION:**

**Write a C program to implement Simple reader-writer algorithm using a shared memory segment with semaphore**

**Server:**

#include<stdio.h>

#include<stdlib.h>

#include<string.h>

#include<sys/types.h>

#include<sys/ipc.h>

#include<sys/shm.h>

#define SHSIZE 100

int main(int argc,char \*argv[])

{

int shmid;

key\_t key;

char \*shm;

char \*s;

//Let key=some ram=ndom integer

key=9876;

shmid=shmget(key,SHSIZE,IPC\_CREAT | 0666);

if(shmid<0)

{

perror("Shmget");

exit(1);

}

shm=shmat(shmid,NULL,0);

if(shm==(char \*)-1)

{

perror("shmat");

exit(1);

}

memcpy(shm,"Vigneshwaran",12);

s=shm;

s+=12;

\*s=0;

while(\*shm!='\*')

{

sleep(1);

}

}

**Client:**

#include<stdio.h>

#include<stdlib.h>

#include<string.h>

#include<sys/types.h>

#include<sys/ipc.h>

#include<sys/shm.h>

#define SHSIZE 100

int main(int argc,char \*argv[])

{

int shmid;

key\_t key;

char \*shm;

char \*s;

//Let key=some ram=ndom integer

key=9876;

shmid=shmget(key,SHSIZE,0666);

if(shmid<0)

{

perror("Shmget");

exit(1);

}

shm=shmat(shmid,NULL,0);

if(shm==(char \*)-1)

{

perror("shmat");

exit(1);

}

for(s=shm;\*s!=0;s++)

{

printf("%c",\*s);

}

printf("\n");

\*shm='\*';

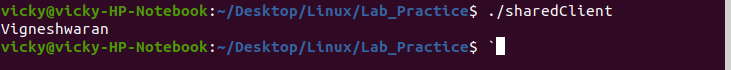
}

**Output:**

**Server:**

****

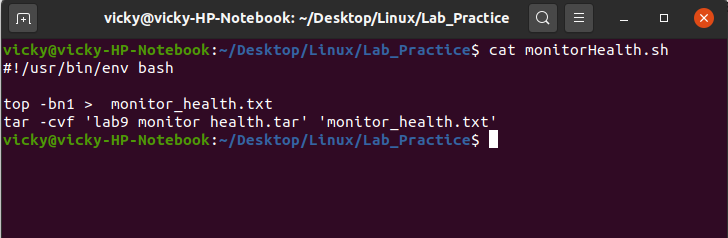
**Client:**

****

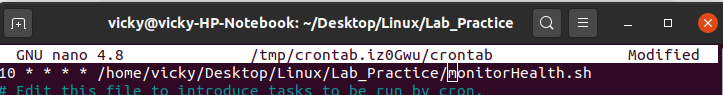
**HOT QUESTION:**

**Write a bash shell script to monitor the health of your system. Let the details be stored and archived in any folder of your choice.**

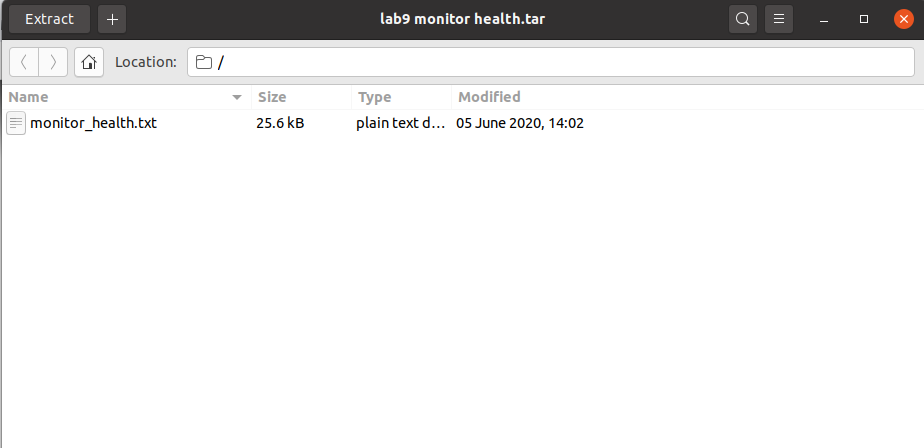
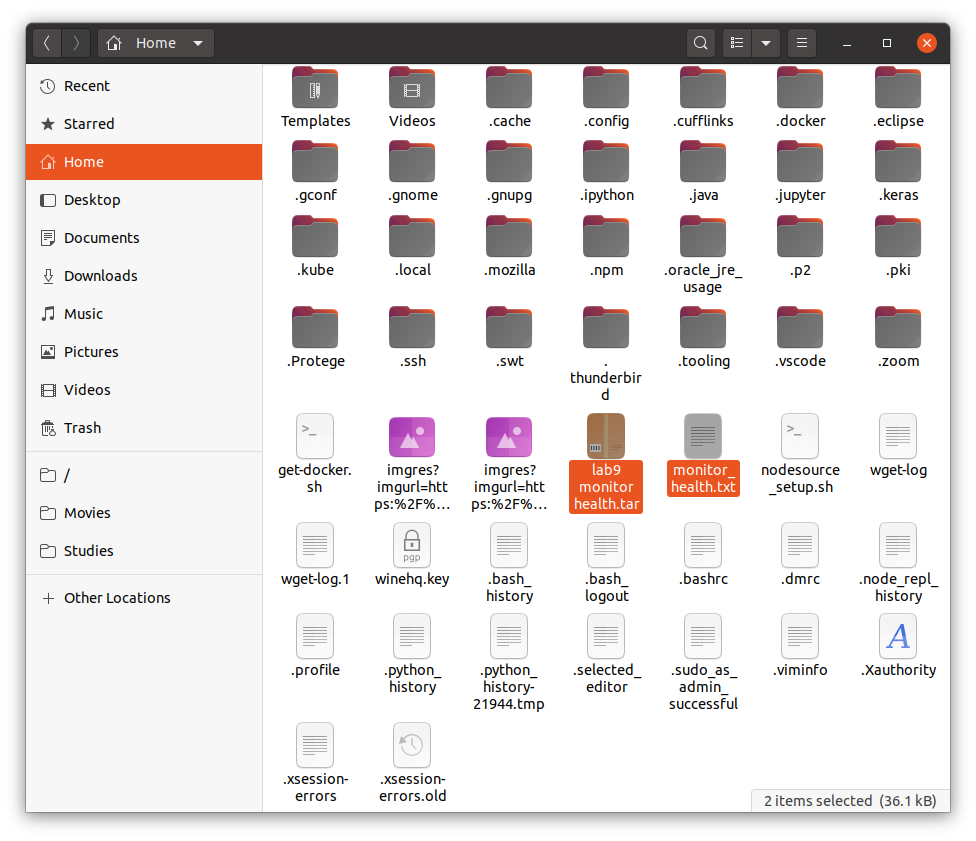
**CODE:**

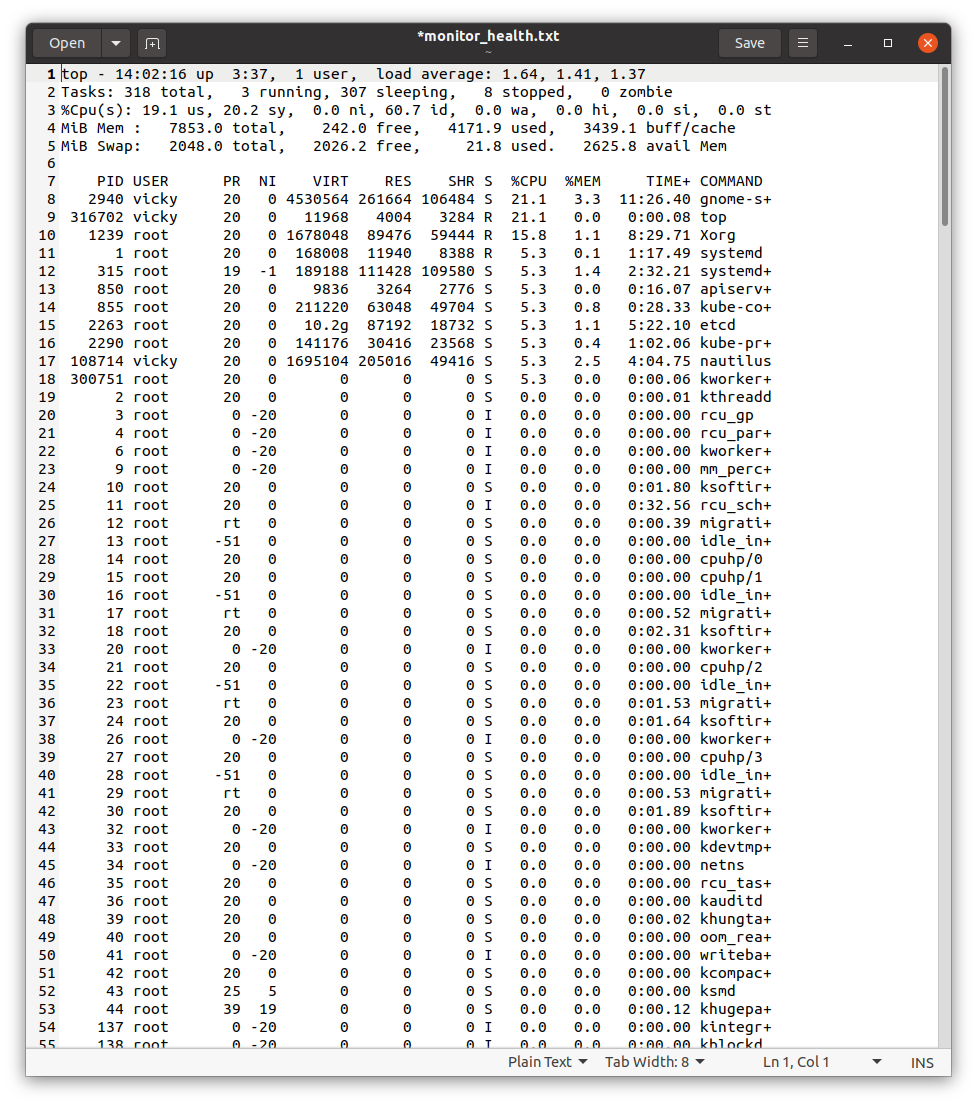
****

crontab -e



**NOTE: This will execute for every 10 minutes.**

**After executing,**

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