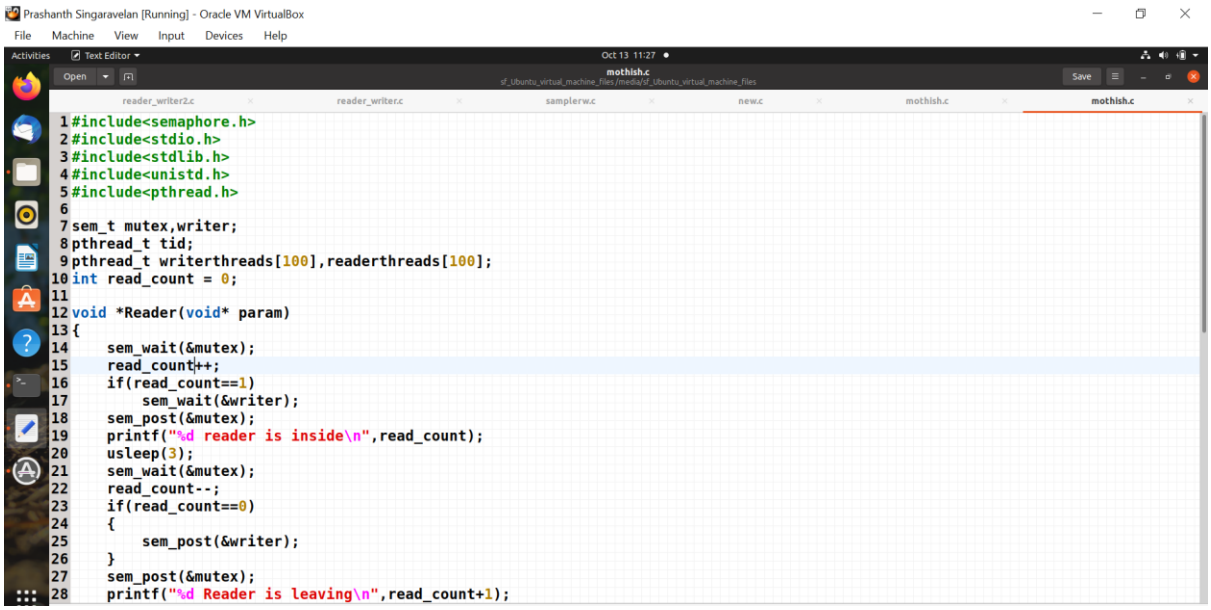
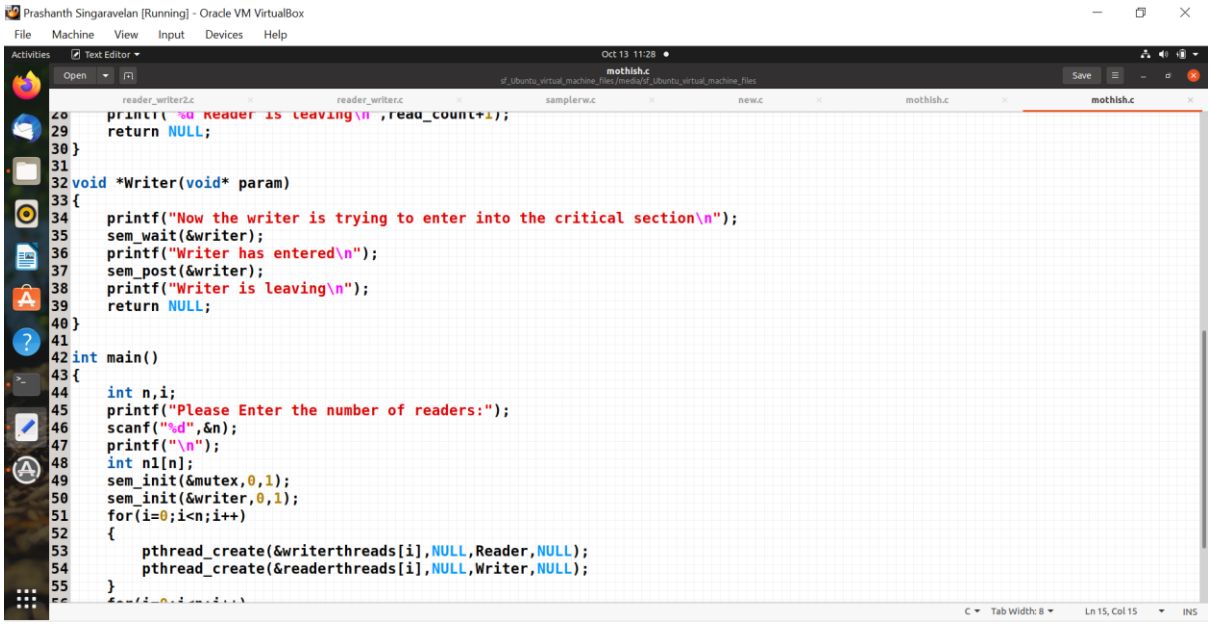
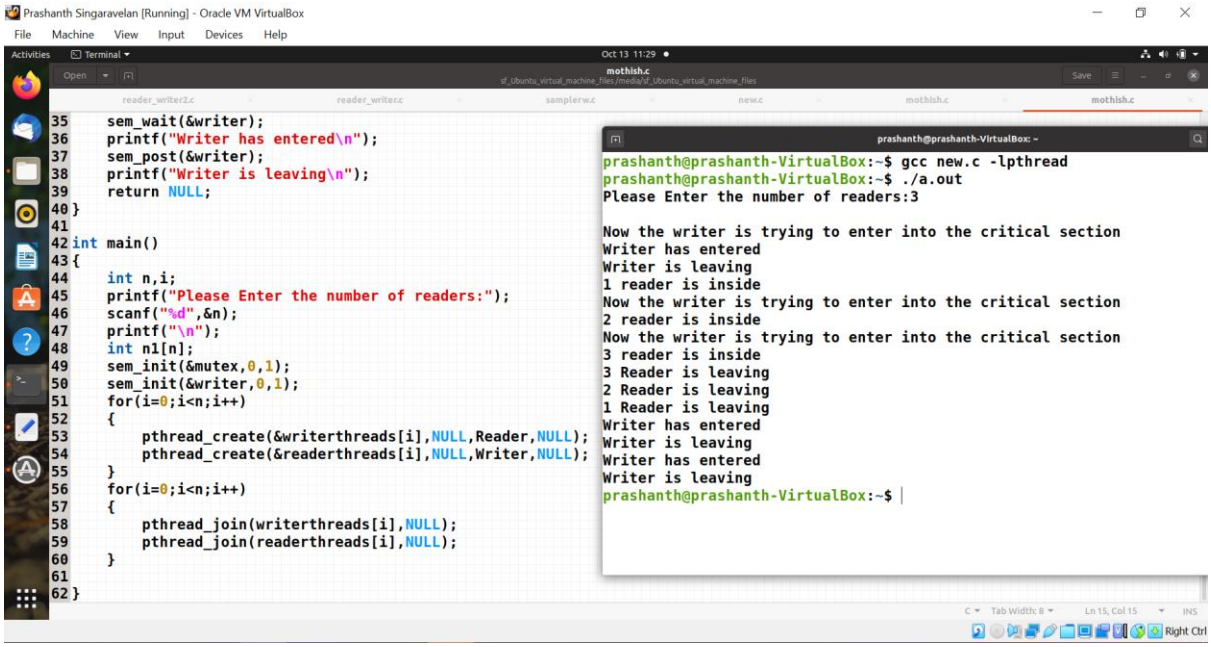
OS Lab cat Prashanth.S(19MID0020)

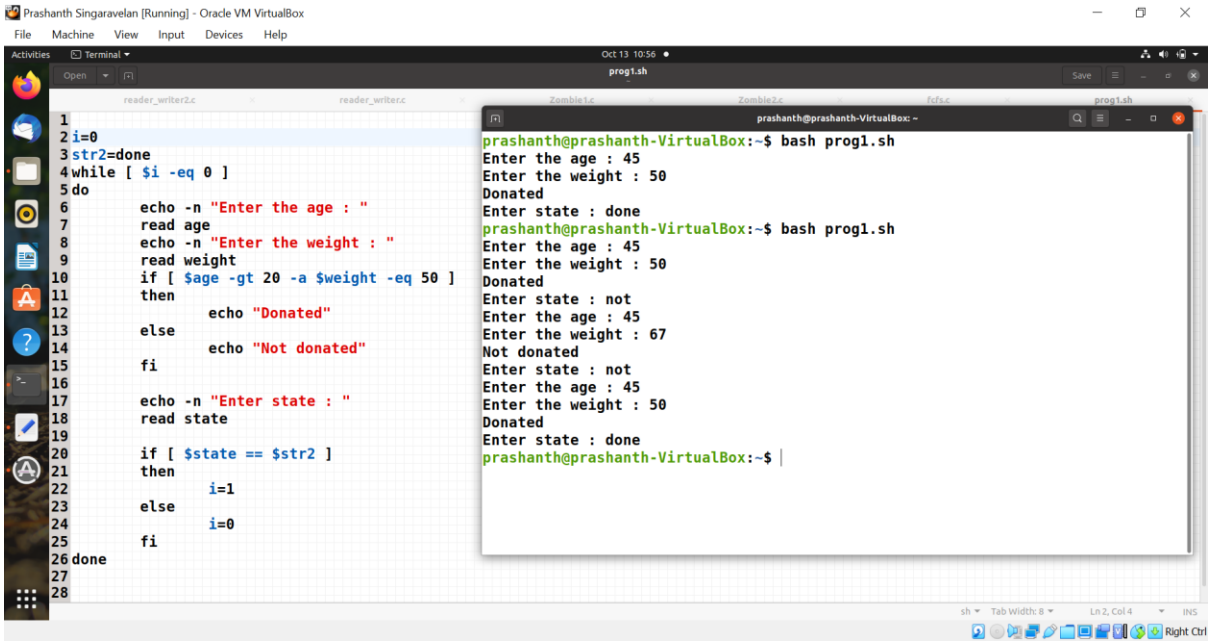
1)






Prashanth Singaravelan [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
mothish.c
sem_wait(&writer);
printf("Writer has entered\n");
sem_post(&writer);
printf("Writer is leaving\n");
return NULL;
}
int main()
{
int n,i;
printf("Please Enter the number of readers:");
scanf("%d",&n);
printf("\n");
int n1[n];
sem_init(&mutex,0,1);
sem_init(&writer,0,1);
for(i=0;i<n;i++)
{
pthread_create(&writerthreads[i],NULL,Reader,NULL);
pthread_create(&readerthreads[i],NULL,Writer,NULL);
}
for(i=0;i<n;i++)
{
pthread_join(writerthreads[i],NULL);
pthread_join(readerthreads[i],NULL);
}
}
prashanth@prashanth-VirtualBox: ~
prashanth@prashanth-VirtualBox:~$ gcc new.c -lpthread
prashanth@prashanth-VirtualBox:~$ ./a.out
Please Enter the number of readers:3
Now the writer is trying to enter into the critical section
Writer has entered
Writer is leaving
1 reader is inside
Now the writer is trying to enter into the critical section
2 reader is inside
Now the writer is trying to enter into the critical section
3 reader is inside
3 Reader is leaving
2 Reader is leaving
1 Reader is leaving
Writer has entered
Writer is leaving
Writer has entered
Writer is leaving
prashanth@prashanth-VirtualBox:~$

2)


Prashanth Singaravelan [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
prog1.sh
i=0
str2=done
while [$i -eq 0]
do
echo -n "Enter the age : "
read age
echo -n "Enter the weight : "
read weight
if [$age -gt 20 -a $weight -eq 50]
then
echo "Donated"
else
echo "Not donated"
fi
echo -n "Enter state : "
read state
if [$state == $str2]
then
i=1
else
i=0
fi
done
prashanth@prashanth-VirtualBox: ~
prashanth@prashanth-VirtualBox:~$ bash prog1.sh
Enter the age : 45
Enter the weight : 50
Donated
Enter state : done
prashanth@prashanth-VirtualBox:~$ bash prog1.sh
Enter the age : 45
Enter the weight : 50
Donated
Enter state : not
Enter the age : 45
Enter the weight : 67
Not donated
Enter state : not
Enter the age : 45
Enter the weight : 50
Donated
Enter state : done
prashanth@prashanth-VirtualBox:~$