# Mutual Exclusion:

#include<stdio.h> #include<conio.h> #include<dos.h> #include<time.h> void main()

{

int cs=0,pro=0; double run=5; char key='a'; time\_t t1,t2; clrscr();

printf("Press a key(except q) to enter a process into critical section."); printf(" \nPress q at any time to exit.");

t1 = time(NULL) - 5; while(key!='q') {

while(!kbhit()) if(cs!=0)

{

t2 = time(NULL); if(t2-t1 > run)

{

printf("Process%d ",pro-1); printf(" exits critical section.\n"); cs=0;

}

}

key = getch(); if(key!='q')

{

if(cs!=0)

printf("Error: Another process is currently executing critical section Please wait till its execution is over.\n");

else

{

}

}

}

}

printf("Process %d ",pro);

printf(" entered critical section\n"); cs=1; pro++;

t1 = time(NULL);

# OUTPUT:

