P1.c

1 #include<stdio.h>

2 #include<sys/sem.h>

3 main()

4 {

5 int id;

6 id=semget(5,3,IPC\_CREAT|0644);

7 if(id<0)

8 {

9 perror("semget");

10 return;

11 }

12 //printf("semaphores created..\n");

13 }

P2.c

1 //wap to prove that every semaphore initial value is zero

2 //$./a.out semaphorenum

3 #include<stdio.h>

4 #include<sys/sem.h>

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

6 {

7 int id,index,ret;

8 id=semget(5,3,IPC\_CREAT|0644);

9 if(id<0)

10 {

11 perror("semget");

12 return;

13 }

14 if(argc!=2)

15 {

16 printf("./a.out semaphorenum\n");

17 return;

18 }

19 index=atoi(argv[1]);

20 ret=semctl(id,index,GETVAL);

21 if(ret==-1)

22 {

23 perror("semctl");

24 return;

25 }

26 printf("semaphore num:%d semval:%d\n",index,ret);

27 }

P3.c

1 //wap to chnage the semaphore value?

2 //$./a.out semaphorenum semaphorevalue

3 #include<stdio.h>

4 #include<sys/sem.h>

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

6 {

7 int id,index,val,ret;

8 id=semget(5,3,IPC\_CREAT|0644);

9 if(id<0)

10 {

11 perror("semget");

12 return;

13 }

14 if(argc!=3)

15 {

16 printf("./a.out semaphorenum semaphoreval\n");

17 return;

18 }

19 index=atoi(argv[1]);

20 val=atoi(argv[2]);

21 ret=semctl(id,index,SETVAL,val);

22 if(ret==-1)

23 {

24 perror("semctl");

25 return;

26 }

27 printf("sem num:%d SET WITH val:%d\n",index,val);

28 }