P1.c

1 #include<stdio.h>

2 #include<signal.h>

3 int i;

4 void isr(int n)

5 {

6 i=i-1;

7 if(i==0)

8 raise(9);

9 printf("alaram signal scheduled for this process after %d sec\n",i);

10 alarm(i);

11 }

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

13 {

14 printf("process started execution...\n");

15 signal(SIGALRM,isr);

16 if(argc!=2)

17 {

18 printf("./a.out alaram\n");

19 return;

20 }

21 i=atoi(argv[1]);

22 printf("alaram signal scheduled for this process after %d sec\n",i);

23 alarm(i);

24 while(1);

25 }

P2.c

1 //wap to find the current action of the signal

2 #include<stdio.h>

3 #include<signal.h>

4 void isr(int n)

5 {

6

7 }

8 main()

9 {

10 void (\*ptr)(int);

11 int n;

12 signal(2,SIG\_IGN);

13 printf("enter signal number...\n");

14 scanf("%d",&n);

15 ptr=signal(n,isr);

16 signal(n,ptr);

17 if(ptr==SIG\_DFL)

18 printf("default action...\n");

19 else if(ptr==SIG\_IGN)

20 printf("ignore...\n");

21 else

22 printf("isr...\n");

23 }

P3.c

1 #include<stdio.h>

2 #include<signal.h>

3 void isr(int n)

4 {

5 unsigned int i;

6 printf("isr started...\n");

7 for(i=0;i<4000000000;i++);

8 printf("isr completed...\n");

9 }

10 main()

11 {

12 signal(2,isr);

13 printf("process under execution...\n");

14 while(1);

15 }