

main.c

Save

Run

Output

Clear

```

17- {
18 if(!strcmp(name,fname[i]))
19 break;
20 }
21 if(i==nf)
22 {
23 strcpy(fname[j++],name);
24 nf++;
25 }
26 else
27 printf("There is already %s\n",name);
28 printf("Do you want to enter another file(yes - 1 or no - 0):");
29 scanf("%d",&ch);
30 }
31 while(ch==1);
32 printf("Directory name is:%s\n",mdname);
33 printf("Files names are:");
34 for(i=0;i<j;i++)
35 printf("\n%s",fname[i]);
36 getch();

```

```

ERROR!
gcc /tmp/oPvUlcIq1V.c -lm
/tmp/oPvUlcIq1V.c:2:9: fatal error: conio.h: No such file or directory
  2 | #include<conio.h>
    |         ^~~~~~
compilation terminated.

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20 }
21 for(i=0;i<5;i++)
22 pthread_join(tid[i],NULL);
23 }
24 void * philosopher(void * num)
25 {
26 int phil=*(int *)num;
27 sem_wait(&room);
28 printf("\nPhilosopher %d has entered room",phil);
29 sem_wait(&chopstick[phil]);
30 sem_wait(&chopstick[(phil+1)%5]);
31 eat(phil);
32 sleep(2);
33 printf("\nPhilosopher %d has finished eating",phil);
34 sem_post(&chopstick[(phil+1)%5]);
35 sem_post(&chopstick[phil]);
36 sem_post(&room);
37 }
38 void eat(int phil)
39 {
40 printf("\nPhilosopher %d is eating",phil);

```

```

ERROR!
gcc /tmp/oPvUlcIq1V.c -lm
/rbin/ld: /tmp/ccIsseZY.o: in function 'main':
oPvUlcIq1V.c:(.text+0x18): undefined reference to 'sem_init'
/rbin/ld: oPvUlcIq1V.c:(.text+0x42): undefined reference to 'sem_init'
/rbin/ld: oPvUlcIq1V.c:(.text+0x98): undefined reference to 'pthread_create'
/rbin/ld: oPvUlcIq1V.c:(.text+0xc2): undefined reference to 'pthread_join'
/rbin/ld: /tmp/ccIsseZY.o: in function 'philosopher':
oPvUlcIq1V.c:(.text+0xf2): undefined reference to 'sem_wait'
/rbin/ld: oPvUlcIq1V.c:(.text+0x11d): undefined reference to 'sem_wait'
/rbin/ld: oPvUlcIq1V.c:(.text+0x15c): undefined reference to 'sem_wait'
/rbin/ld: oPvUlcIq1V.c:(.text+0x1c3): undefined reference to 'sem_post'
/rbin/ld: oPvUlcIq1V.c:(.text+0x1da): undefined reference to 'sem_post'
/rbin/ld: oPvUlcIq1V.c:(.text+0x1e4): undefined reference to 'sem_post'
collect2: error: ld returned 1 exit status

```

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```

1 #include<stdio.h>
2 #include<stdlib.h>
3 #include<unistd.h>
4 #include<pthread.h>
5 void *myThreadFun(void *vargp)
6 {
7     sleep(1);
8     printf("Printing GeeksQuiz from Thread \n");
9     return NULL;
10 }
11 int main()
12 {
13     pthread_t thread_id;
14     printf("Before Thread\n");
15     pthread_create(&thread_id, NULL, myThreadFun, NULL);
16     pthread_join(thread_id, NULL);
17     printf("After Thread\n");
18     exit(0);
19 }

```

```

ERROR!
gcc /tmp/oPvUlcIqLV.c -lm
/rbin/ld: /tmp/ccPSNuD8.o: in function 'main':
oPvUlcIqLV.c:(.text+0x50): undefined reference to 'pthread_create'
/rbin/ld: oPvUlcIqLV.c:(.text+0x61): undefined reference to 'pthread_join'
collect2: error: ld returned 1 exit status

```

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```

1 #include <stdio.h>
2 #include <stdlib.h>
3 #include <unistd.h>
4 #include <sys/types.h>
5 #include <sys/ipc.h>
6 #include <sys/shm.h>
7
8 #define SHMSZ 27
9
10 int main() {
11     int shmid;
12     key_t key;
13     char *shm, *s;
14
15     // Generate a unique key for the shared memory segment
16     if ((key = ftok(".", 'R')) == -1) {
17         perror("ftok");
18         exit(1);
19     }
20
21     // Create the shared memory segment

```

```

/tmp/oPvUlcIqLV.o
ABCDEFGHIJKLMNOPQRSTUVWXYZ

```

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```

1 #include<stdio.h>
2 #include<stdlib.h>
3 #include<unistd.h>
4 #include<sys/shm.h>
5 #include<string.h>
6 int main()
7 {
8     int i;
9     void *shared_memory;
10     char buff[100];
11     int shmid;
12     shmid=shmget((key_t)2345, 1024, 0666|IPC_CREAT);
13     printf("Key of shared memory is %d\n",shmid);
14     shared_memory=shmat(shmid,NULL,0);
15     printf("Process attached at %p\n",shared_memory);
16     printf("Enter some data to write to shared memory\n");
17     read(0,buff,100);
18     strcpy(shared_memory,buff);
19     printf("You wrote : %s\n",(char *)shared_memory);
20 }

```

```

/tmp/ouBPmtmvey.o
Key of shared memory is 0
Process attached at 0x7eeca8c18000
Enter some data to write to shared memory

```

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```

1 #include <stdio.h>
2 #include <stdlib.h>
3 #include <string.h>
4
5 struct Employee {
6     int id;
7     char name[50];
8     float salary;
9 };
10
11 int main() {
12     FILE *file;
13     struct Employee emp;
14
15     // Create and open a binary file for read-write in binary mode
16     file = fopen("employees.dat", "wb+");
17     if (file == NULL) {
18         printf("Error opening file.");
19         return 1;
20     }

```

```

/tmp/oPvUlciglV.o
Employee Details:
ID: 0, Name: , Salary: 0.00
ID: 1, Name: John Doe, Salary: 50000.00
ID: 2, Name: Jane Smith, Salary: 60000.00

```

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```

1 #include <stdio.h>
2 #include <stdlib.h>
3
4 void firstFit(int memory[], int n, int process[], int m) {
5     int allocation[m];
6     for (int i = 0; i < m; i++) {
7         allocation[i] = -1;
8         for (int j = 0; j < n; j++) {
9             if (memory[j] >= process[i]) {
10                 allocation[i] = j;
11                 memory[j] -= process[i];
12                 break;
13             }
14         }
15     }
16     printf("First Fit Allocation:\n");
17     for (int i = 0; i < m; i++) {
18         if (allocation[i] != -1)
19             printf("Process %d allocated to Block %d\n", i + 1,
20                 allocation[i] + 1);
21         else

```

```

/tmp/oPvUlciglV.o
First Fit Allocation:
Process 1 allocated to Block 2
Process 2 allocated to Block 5
Process 3 allocated to Block 2
Process 4 can't be allocated
Best Fit Allocation:
Process 1 allocated to Block 4
Process 2 can't be allocated
Process 3 allocated to Block 2
Process 4 can't be allocated

```

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```

26 {
27     printf("enter file name:");
28     scanf("%s", &dir[i].fname[j][k]);
29 }
30 }
31 }
32 printf("\ndirname\t\tsize\t\tsubdirname\t\tsize\t\tfiles");
33 printf("\n*****\n");
34 for(i=0;i<n;i++)
35 {
36     printf("%s\t\t%d", dir[i].dname, dir[i].ds);
37     for(j=0;j<dir[i].ds;j++)
38     {
39         printf("\t\t\t\t\t\t", dir[i].sdname[j], dir[i].sds[j]);
40         for(k=0;k<dir[i].sds[j];k++)
41             printf("%s\t", dir[i].fname[j][k]);
42         printf("\n\t\t\t\t\t\t");

```

```

/tmp/oPvUlciglV.o
enter number of directories:5
enter directory 1 names:greenn
enter size of directories:5
enter subdirectory name and size:english
54
enter file name:delhi
enter file name:delih1
enter file name:

```

