

main.c X

```
1  #include<math.h>
2  int main()
3  {
4      int ls,t,k,count=0,po_p2,po_phs2,po_ls2,phs,p,np,nf,pag_no[10],main_my[20],bin_arr[10],j,fram,sum=0,f_no,i,ind;
5      printf("Enter logical size below 10:\n");
6      scanf("%d",&ls);
7      printf("Enter physical size below 10:\n");
8      scanf("%d",&phs);
9      printf("Enter page size below 10:\n");
10     scanf("%d",&p);
11     while(p!=1){
12         p=p/2;
13         count+=1;
14     }
15     p=p*count;
16     printf("%d",&p);
17     po_p2=pow(2,p);
18     po_ls2=pow(2,ls);
19     po_phs2=pow(2,phs);
20     np =po_ls2 /po_p2;
21     printf("%d",np);
22     nf =po_phs2 /po_p2;
23     printf("Number of pages: \n %d",np);
24     for(i=0 ; i<np ; i++){
25         printf("Enter frame number to page no %d :\n",i);
26         scanf("%d",&f_no);
27         pag_no[i] = f_no;
28     }
29     for(i=0;i<nf;i++){
30         main_my[i]=-1;
31     }
32     printf("Enter already filled processes in main memory before page table was filled:\n");
33     while(t != -1){
34         printf("Enter frame number for which processes is to be entered:\n");
35         scanf("%d",&k);
36         printf("Enter processes into main memory :\n");
37         scanf("%d",&main_my[k]);
```

```
37     scanf("%d",&main_my[k]);
38     printf("Want to add more values to main memory, enter 0 for yes and -1 for no:\n");
39     scanf("%d",&t);
40 }
41 for(i=0;i<np;i++){
42     ind=pag_no[i];
43     printf("Enter process to frame number %d :\n",ind);
44     scanf("%d",&main_my[ind]);
45 }
46 printf("          *PAGE TABLE*          \n");
47 printf("Page_no      Frame_no\n");
48 for(i=0; i<np ; i++){
49     printf(" %d          %d\n",i,pag_no[i]);
50 }
51 printf("          *MAIN MEMORY*          \n");
52 printf("Frame_no      Procees\n");
53 for(i=0; i<nf ; i++){
54     if(main_my[i] != -1){
55         printf(" %d          P%d\n",i,main_my[i]);
56     }
57     else{
58         printf(" %d          %d\n",i,main_my[i]);
59     }
60 }
61 printf("Enter the binary logical address to find frame number (Enter one bit press enter):\n");
62 for(i=0; i<ls ; i++) {
63     scanf("%d",&bin_arr[i]);
64 }
65 printf("Offset:\n");
66 for (i=0; i<p ; i++){
67     printf("%d",bin_arr[ls-p+i]);
68 }
69 for(i=ls-p,j=0; i>=0 ; i--){
70     sum+=pow(2,j)*bin_arr[i];
71     j++;
72 }
73 fram=pag_no[sum];
74 printf("\nFrame number:\n%d",fram);
75 printf("\nProcess number:\n%d",main_my[fram]);
76 printf("\nOffset size :\n %d",p);
77 }
78
```

"D:\study software\test\paging in OS\bin\Debug\paging in OS.exe"

Enter frame number for which processes is to be entered:

2

Enter processes into main memory :

1

Want to add more values to main memory, enter 0 for yes and -1 for no:

-1

Enter process to frame number 3 :

-1

PAGE TABLE

Page_no	Frame_no
---------	----------

0	3
---	---

MAIN MEMORY

Frame_no	Procees
----------	---------

0	-1
---	----

1	-1
---	----

2	P1
---	----

3	-1
---	----

4	-1
---	----

5	-1
---	----

6	-1
---	----

7	-1
---	----

Enter the binary logical address to find frame number (Enter one bit press enter):

1

Offset:

1

Frame number:

6356700

Process returned -1073741819 (0xC0000005) execution time : 46.909 s

Press any key to continue.

—



Type here to search



7:48 PM

14-Nov-20

