

DATE:-29/09/22

COURSE NAME:-OPERATING SYSTEM WITH DESIGN PRINCIPLES.

COURSE CODE:-CSA0470.

NAME OF THE STUDENT:-CH.INDHU PRIYA.

REG NO:-192111191

EXPERIMENT:16(FIFO PAGING)

```
C:\Users\chall\OneDrive\Documents\FIFO PAGING.exe

ENTER THE NUMBER OF PAGES:
3

ENTER THE PAGE NUMBER :
1
3
2

ENTER THE NUMBER OF FRAMES :4
ref string      page frames
1             1      -1      -1      -1
3             1      3      -1      -1
2             1      3      2      -1
Page Fault Is 3
-----
Process exited after 14.98 seconds with return value 0
Press any key to continue . . .
```

EXPERIMENT:-17(LRU PAGING)

```
C:\Users\chall\OneDrive\Documents\LRU paging.exe

ENTER THE NUMBER OF PAGES:
5

ENTER THE PAGE NUMBER :
5
4
2
1
3

ENTER THE NUMBER OF FRAMES :3
ref string      page frames
5             5      -1      -1
4             5      4      -1
2             5      4      2
1             1      4      2
3             1      3      2
Page Fault Is 5
-----
Process exited after 18.86 seconds with return value 0
Press any key to continue . . .
```

EXPERIMENT:-18(OPTIMAL PAGING)

```
C:\Users\chall\OneDrive\Documents\paging_optimal.exe
Enter number of frames: 3
Enter number of pages: 5
Enter page reference string: 3
4
6
8
8
3      -1      -1
3      4      -1
3      4      6
3      4      6
8      4      6
8      4      6

Total Page Faults = 4
-----
Process exited after 25.92 seconds with return value 0
Press any key to continue . . .
```

EXPERIMENT:19(FILE STRATEGY)

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main.c

```
22     printf("The file is not allocated to the disk\n");
23     printf("Do you want to enter more files?\n");
24     printf("Press 1 for YES, 0 for NO: ");
25     scanf("%d", &ch);
26     if (ch == 1)
27         recurse(files);
28     else
29         exit(0);
30     return;
31 }
32 int main()
33 {
34     int files[50];
35     for(int i=0;i<50;i++)
36         files[i]=0;
37     printf("Files Allocated are :\n");
38     recurse(files);
39     getchar();
40     return 0;
41 }
```

Output

```
/tmp/euZNDRF68f.o
Files Allocated are :
Enter the starting block and the length of the files: 6
6
6 1
7 1
8 1
9 1
10 1
11 1
The file is allocated to the disk
Do you want to enter more files?
Press 1 for YES, 0 for NO: 5
4
dash: 2: 4: not found
```

EXPERIMENT:20(INDEX FILE ORGANIZATION)

```
C:\Users\chall\OneDrive\Documents\INDEX FILE ORGANIZATION.exe
Enter the index block: 4
Enter no of blocks needed and no of files for the index 4 on the disk :
6
5
98
75
68
98
23
Allocated
File Indexed
4----->5 : 1
4----->98 : 1
4----->75 : 1
4----->68 : 1
4----->98 : 1
4----->23 : 1
Do you want to enter more file(Yes - 1/No - 0)0
-----
Process exited after 53.35 seconds with return value 0
Press any key to continue . . .
```