OS Semester Practical

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Branch: CSE Sem: 5

Subject Code: SCSA2502 Subject Name: Operating System lab

Date of exam: 29/04/12/2021 No. of Pages: 4

Aim: Write a C Program to implement Paging Technique for memory management

Algorithm:

Step1: declare all the variables

Step2: Take input for n, PS, f

Step3: Run for loop and set all page array values as -1

Step4: run for loop and take input for page array in each index

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Step5: Start do while loop and take input for pno and off

Step6: do check if page[pno] = -1 print if yes, then print "Required page is not available"}

Step7 Else print page[pno], off} and break.

Step8 End do while loop

Program

```
#include <stdio.h>
#define MAX 50
int main()
{
    int page[MAX], i, n, f, ps, off, pno;
    scanf("%d", &n);
    scanf("%d", &ps);
    scanf("%d", &f);
    for(i=0; i<n; i++)
        page[i] = -1;
```

```
for (i=0; i<n; i++)
    scanf("%d", &page[i]);

do
{
    scanf("%d %d", &pno, &off);
    if (page[pno] == -1)
        printf("\n\n The required page is
        not available in any of frames");
    else
    {
        printf("%d, %d", page[pno], off);
        break;
    }
}while(1);

return 0;

}
```

O/P result:

Test	Input	Expected	Got
T_1	4 10 10 2 4 6 5 1 100	4,100	4,100
T_2	3 10 10 2 3 1 0 100	2,100	2,100

Result: fq Paging Technique for memory management using C language was executed sucessfully.

	Test	Input	Expected	Got	
✔	T1	4 10 10 2 4 6 5 1 100	4,100	4,100	✔
✔	T2	3 10 10 2 3 1 0 100	2,100	2,100	✔

Passed all tests! ✔

Correct

Marks for this submission: 20.00/20.00.