## Week - 8 (10 August 2023) Experiment - 8

## **Ouestion:**

Write a C program to simulate paging technique of memory management.

## **Program:**

```
#include<stdio.h>
#define MAX 50
int main()
  int page[MAX],i,n,f,ps,off,pno;
  int choice=0;
  printf("Enter the number of pages in memory: ");
  scanf("%d",&n);
  printf("\nEnter Page size: ");
  scanf("%d",&ps);
  printf("\nEnter number of frames: ");
  scanf("%d",&f);
  for(i=0;i< n;i++)
    page[i]=-1;
  printf("\nEnter the Page Table\n");
  printf("(Enter frame no as -1 if that page is not present in any frame)\n\n");
  printf("\nPage No\t\tFrame No\n-----\t\t-----");
  for(i=0;i< n;i++)
    printf("\n\n\%d\t\t",i);
     scanf("%d",&page[i]);
  }
  do
    printf("\n\nEnter the logical address(i.e,page no & offset):");
    scanf("%d%d",&pno,&off);
     if(page[pno]==-1)
       printf("\n\nThe required page is not available in any of frames");
     else
       printf("\nPhysical address(i.e, frame no & offset):%d,%d",page[pno],off);
     printf("\n vou want to continue(1/0)?:");
```

```
scanf("%d",&choice);
  }while(choice==1);
  return 1;
}
```

**Output:** 

```
Enter the number of pages in memory: 4
Enter Page size: 10
Enter number of frames: 4
Enter the Page Table
(Enter frame no as -1 if that page is not present in any frame)
Page No
                Frame No
0
                -1
                8
2
                5
                2
```

```
Enter the logical address(i.e,page no & offset):0 100
The required page is not available in any of frames
Do you want to continue(1/0)?:1
Enter the logical address(i.e,page no & offset):1 25
Physical address(i.e, frame no & offset):8,25
Do you want to continue(1/0)?:1
Enter the logical address(i.e,page no & offset):2 352
Physical address(i.e, frame no & offset):5,352
Do you want to continue(1/0)?:1
Enter the logical address(i.e,page no & offset):3 20
Physical address(i.e, frame no & offset):2,20
Do you want to continue(1/0)?:0
```

## **Observation Book Pictures:**

	PAGE NO: DATE: 10/8/2023
	Experiment - 11
	Wente a c program to simulate paging technique of monory management.
	Program:
(*	# include < stdio.h>  # define MAX 50
- 4	Put main()
(35 Can - 0)	[ int page [MAX]; n, f, ps, off, pno; int (hoice = 0;
	print (66 Enter tre number of pages in memory: ").
	peint (" \n Enter the Page size: "). Scarf (" \d", &pl);
	Later print (66   n Enter number of brames: "); scanf (66 % od", x); for (1°=0; & n d °++)
	Page [:] = -1:
	print (" (Enter frame no as -1 of that page is not present in any frame) in in ");  print (" (" Rage No. It It Frame No No. 1).
	for (0=0; i <n; ";="" %="" ("="" f="" i);<="" i++)="" od="" print="" t="" td="" {=""  =""  n=""></n;>
	scarf (" %od", & page [i]);



