**LAB 10**

Implement the above code and paste the screen shot of the output.

CODE:

#include <stdio.h>

#include <conio.h>

int main() {

int ms, ps, nop, np, rempages, i, j, x, y, pa, offset;

int s[10], fno[10][20];

printf("\nEnter the memory size: ");

scanf("%d", &ms);

printf("Enter the page size: ");

scanf("%d", &ps);

nop = ms / ps;

printf("The number of pages available in memory: %d", nop);

printf("\nEnter the number of processes: ");

scanf("%d", &np);

rempages = nop;

for (i = 1; i <= np; i++) {

printf("\nEnter number of pages required for p[%d]: ", i);

scanf("%d", &s[i]);

if (s[i] > rempages) {

printf("\nMemory is Full");

break;

}

rempages -= s[i];

printf("Enter page table for p[%d]:\n", i);

for (j = 0; j < s[i]; j++) {

scanf("%d", &fno[i][j]);

}

}

printf("\nEnter Logical Address to find Physical Address");

printf("\nEnter process number, page number, and offset: ");

scanf("%d %d %d", &x, &y, &offset);

if (x > np || y >= s[x] || offset >= ps) {

printf("\nInvalid Process or Page Number or Offset");

} else {

pa = fno[x][y] \* ps + offset;

printf("The Physical Address is: %d", pa);

}

getch();

return 0;

}

**OUTPUT:**

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