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 \le np; i++)
     printf("\nEnter number of pages required for p[%d]: ", i);
     scanf("%d", &s[i]);
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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 \parallel y \ge s[x] \parallel offset \ge 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;
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```

OUTPUT:

```
Enter the memory size: 4
Enter the page size: 3
The number of pages available in memory: 1
Enter the number of processes: 2
Enter number of pages required for p[1]: 1
Enter page table for p[1]: 2
Enter number of pages required for p[2]: 3
Memory is Full
Enter Logical Address to find Physical Address
Enter process number, page number, and offset: 2
1
3
Invalid Process or Page Number or Offset
```