PROGRAMMING TEST 3

CODE:

```
#include <stdio.h>
#include <stdlib.h>
int* input(int n , int f , int page[] , int frame[])
{
     printf("Enter the number\n");
     for(int i = 0; i < n; i++)
          scanf("%d",&page[i]);
     for(int j = 0; j < f; j++)
          frame[j]=-1;
     return page;
}
void trashing( int f , int pftc)
{
     if(pftc>f)
          printf("Trashing detected\n");
}
void fifo(int n , int f , int page[] , int frame[])
     int i , j;
     int count=0;
     int pf=0;
     int pftc = 0;
     printf("\nFIFO\n");
     for(i = 0; i < n; i++)
          for(j = 0; j < f; j++)
                if(frame[j]==page[i]) //hit
                break;
          if(j == f)
```

```
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          {
               frame[count++] = page[i];
               pf++;
               pftc++;
          if(pftc>f)
               trashing(f , pftc);
               pftc=0;
          for(j = 0; j < f; j++)
               printf("%d\t",frame[j]);
          printf("\tPF-NO = %d\n",pf);
          if(count==f)
               count=0;
     }
}
void main()
{
     int n , f , page[20] , frame[10] ;
     printf("Enter the no of pages\n");
     scanf("%d",&n);
     printf("Enterthe no of frames\n");
     scanf("%d",&f);
     input(n , f , page , frame);
     fifo(n, f, page, frame);
}
```

OUTPUT:

```
aneesh@aneesh:~/Desktop$ gcc fifo.c
aneesh@aneesh:~/Desktop$ ./a.out
Enter the no of pages
20
Enterthe no of frames
Enter the number
1 2 4 5 1 5 3 2 6 1 6 3 3 1 5 7 3 2 1 3
FIF0
         -1
                                                      PF-NO = 1
                  -1
                           -1
                                    -1
1
                  -1
                                                      PF-NO = 2
        2
                           -1
                                    -1
        2
1
1
1
                  4
                           -1
                                                      PF-NO = 3
                                    -1
         2
                  4
                           5
                                    -1
                                                      PF-NO = 4
        2
                 4
                          5
                                                      PF-NO = 4
                                    -1
                  4
         2
                           5
                                    -1
                                                     PF-NO = 4
1
         2
                           5
                 4
                                   3
                                                     PF-NO = 5
        2
                           5
                                                     PF-NO = 5
                  4
                                   3
Trashing detected
6
         2
                  4
                          5
                                   3
                                                     PF-NO = 6
6
         1
                  4
                           5
                                   3
                                                     PF-NO = 7
6
                           5
         1
                                   3
                 4
                                                      PF-NO = 7
6
                          5
                                   3
         1
                  4
                                                      PF-NO = 7
6
                          5
         1
                  4
                                    3
                                                     PF-NO = 7
6
                          5
         1
                  4
                                   3
                                                      PF-NO = 7
6
                          5
         1
                 4
                                   3
                                                      PF-NO = 7
6
                          5
         1
                 7
                                   3
                                                      PF-NO = 8
6
                          5
                 7
         1
                                   3
                                                      PF-NO = 8
6
                          2
         1
                 7
                                   3
                                                     PF-NO = 9
6
         1
                  7
                           2
                                   3
                                                     PF-NO = 9
         1
                 7
                                   3
                                                     PF-NO = 9
aneesh@aneesh:~/Desktop$
```