Assignment No 6:

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Sub: Operating System Lab

Aim: - Disk Management Technique (FCFS)

Code ===

```
#include <stdio.h>
#include <stdlib.h>

int main() {
    int n, i, head, seekTime = 0;

    // Accept the number of requests
    printf("Enter the number of requests: ");
    scanf("%d", &n);

    int requests[n];

    // Accept the initial head position
    printf("Enter the initial head position: ");
    scanf("%d", &head);

    // Accept the sequence of requests
    printf("Enter the request sequence:\n");
    for (i = 0; i < n; i++) {
        scanf("%d", &requests[i]);
    }

    // Calculate total seek time for FCFS
    for (i = 0; i < n; i++) {
        seekTime += abs(requests[i] - head);  // Calculate seek time from current head position to the request
        head = requests[i];                   // Update head to the current request position
```

```
    }

    // Output total seek time
    printf("Total Seek Time: %d\n", seekTime);

    return 0;
}
```

Output ===