Program:-10

// C program to demonstrate FCFS Disk Scheduling algorithm

#include <stdio.h>

#include<math.h>

int size = 8;

void FCFS(int arr[], int head)

{

int seek\_count = 0;

int distance, cur\_track;

printf("Request Queue is :\n");

for (int i = 0; i < size; i++)

{

printf("%d\n",arr[i]);

}

for (int i = 0; i < size; i++)

{

cur\_track = arr[i];

// calculate absolute distance

distance = abs(cur\_track - head);

// increase the total count

seek\_count += distance;

// accessed track is now new head

head = cur\_track;

}

printf("\nTotal number of Cylinder crossed = %d\n", seek\_count);

}

int main()

{

// request queue

int arr[] = { 98, 183, 37, 122, 14, 124, 65, 67 };

int head = 53;

FCFS(arr, head);

return 0;

}

Output:-

/tmp/2DgGcFKdlk.o

Request Queue is :

98

183

37

122

14

124

65

67

Total number of Cylinder crossed = 640