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| **Exp. 10 - Part A** |
| **Aim:**  Write and execute a c program to implement First Come First Serve, C-Look Disk Scheduling Algorithm. |
| **Requirements:** C Programming knowledge and understanding of disk scheduling concept. |
| **Outcome:** Understand the disk scheduling algorithms in an operating system.. |
| **Theory:**  It is the simplest form of disk scheduling algorithms. The I/O requests are served or processes according to their arrival. The request arrives first will be accessed and served first. Since it follows the order of arrival, it causes the wild swings from the innermost to the outermost tracks of the disk and vice versa.  We illustrate them with a request queue (0-199). |
| **Instructions:**   1. Take input queue of request and then draw request entertainment flow based on the concept of FCFS disk scheduling concept. |

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| **Exp.10- Part B** | |
| **Name of Student:Aryan Srivastava** | **Roll No.: A073** |
| **Programme: MCA**  initial\_position = 100  work\_queue = [23, 89, 132, 42, 187]  total\_head\_movement = 0  current\_position = initial\_position  request\_flow = [initial\_position]  for request in work\_queue:      movement = abs(request - current\_position)      total\_head\_movement += movement      current\_position = request      request\_flow.append(current\_position)  print("Request Entertainment Flow:")  for position in request\_flow:      if position != request\_flow[-1]:          print(position, end=" -> ")      else:          print(position)  print("Total Head Movement:", total\_head\_movement) | |
| **Output:** | |
| **Observation & Learning:** Understood the disk scheduling algorithms in an operating system | |
| **Conclusion: successfully completed disc scheduling algorithm** | |
| **Questions:**   1. Solve the following using FCFS disk scheduling algorithm.   **Work Queue**: 23, 89, 132, 42, 187  there are 200 cylinders numbered from 0 - 199  the disk head stars at number 100  From 100 to 23: 77 cylinders  From 23 to 89: 66 cylinders  From 89 to 132: 43 cylinders  From 132 to 42: 90 cylinders  From 42 to 187: 145 cylinders | |
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