Name : Jayesh Patel
Roll no 721297 Assignment no 8 Aim : Implement the C program Disk scheduling
Algorithm SSTI, SCAN, C-Look considering the initial head position moving away from spindle objectives : To study Disk structure Disk scheduling Algorithm Theory :one of the responsibilities of as is to use the hardware efficiently for the disk drives, meeting this responsibility entries having Rest acress time & lang disk handwith Both the arress improved by managing the cities in which disk 110 requests are serviced which is called disk scheduling first is ECES. Is to and is not provide fastert service. In the SCAN adjustition, the disk arm starts of one end and move toxpords the other end, their direction is reversed, & servicing continues the head continuosly scan back a forth across the disk escan is variend of scan designed to provide like SCAN , C-SCAN moves the head from one end to the disk to other servicing requests along the way. When the had reaches the other end servicing any request on returng trip DISTYTEU * over the past 30 years, the inneuse in **Generated Via Scanner Go** speed processors and main memory has far outstrapped that of disk access with processor and main memory speed increasing by abact two orders of magnetade compared to one order of magnetade for dist

* The result is that dist are convently of local from order of magnetude slower than main memory

This gap is expected to continue into

* Thus, the performance of disk storage

subsystem is of vital concern 8 much research

has gone into scheme for improving that

performance

Disk Performance Parameters

* When the dish drive is operating, the disk is relating ad constant spend

of desired truck & out the beginning of desired sector on the truck

uncits until the appropriate sector rotates to line up with the head

the time it takes from beginning of sector to bead is known as mid-tional clearly or sector to reductional laternal

is is access time, the time it any retational delay into position to read or write.

onces the head is an position, the recid or write operation is then performed as the sector mover under the head this is the data transfer position of operation Seek time seek time is the required to move the disk one to required track The seek time consists of two keys componen the initial startup time and time tacken to transes the cylinder that have been crossed once the access arm is up to speed the seek time can be approximate with the following formula T3 = m+n+s where TS = estimated seek Hime n = number of tracks traversed m : constant that depends on the disk days S = Storup time **Generated Via Scanner Go**