	Deeperh Tank
	+ 1 2/ment-8 18075017
	Experiment-8 18015017 DATE DATE
	ry Allocation sho
	tile Alloca.
	late the life allocation
۸.	- write a Cprogram to stimulate the file allocation
Aim	- write a Cross
	a) sequential
	9 linked.
	Theoly:
T. H.	
	a) segmenter strategy reach ple occupied
	a) sequential: This allocation strategy is ach file occupied This allocation strategy is the
	and entry for each file. It show the
	table consists of a single entry for each file. It show the
	lilenames Haching block of meple and
,	main problem with this strategy is, it is difficult to find the
	to last in the date and some free blocks could
	early gous free blocks in the disk and some free blocks could
	happen between two files.
	1 for it is the dead because and it is the sale
	Algorithm;
J	Plep 1 + Start the program.
5	teb2 + (net he number of mance
	tep2 + Cret he number of momony painhous and their sizes
	lep 3: - het me nomber of processe and value of black the
	lep 3:- het the number of processes and value of black the
	Hock until a hole which is he can the menny
	It allocates that me Is
	It allocates that memory blockfor the requesting processes
7)	pert-pit algentum searcher 1
	mall a hole which can be allocated the momory blocks for
	and allocates it.
	and allocates is
	THE PROPERTY OF THE PARTY OF TH
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	Coopped with ComC

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Step 61-Worst-fit algorithm searches the memory blocks for the largest and allocate it to the process

Step 7: Analysisall the 3 momory management technique and display best algorithm which ultilize the memory resources allochively and efficiently.

Step 8 + Shop the program.

b) Indexed:

Indexed allocations support both sequential and direct accessifile The file indexes are not physically stored as a pass of the file allocation table. Whenever the file size decreases increase, we can easily add more blocks to the index. In this strategy, the file allocation table contains a single entry for each file. The entry consisting of the index blocks the index blocks have blocks to the pointers to the other blocks. No external fragmentation

Algenthm: -

step 1 + Stort

step 2: - let n be size of buffer.

step3 - check if there are only producer

step 4+ If yes check whether the buffer is full.

Acps: I no the producer item is stored in the buffer.

Hefor it the buffer is full the producer has to wait.

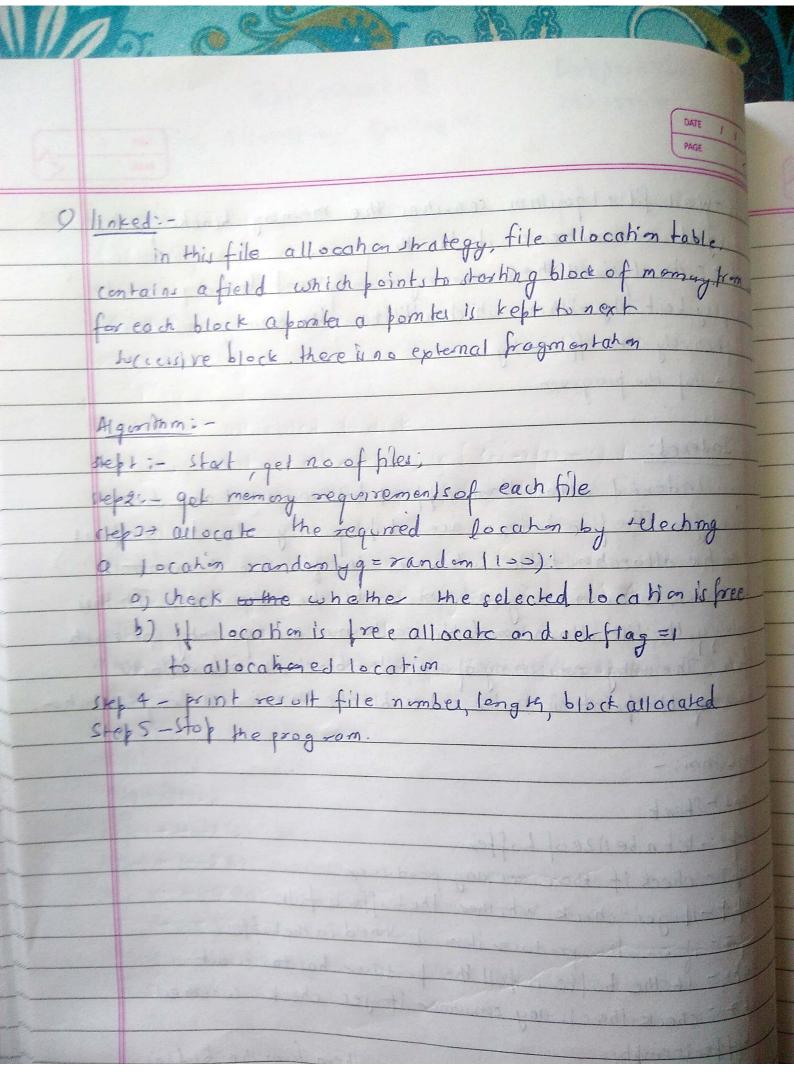
shelf 75 - check there is any consumer it yes check whether

buffer is empty

Stef 8 - 1 no the consumer consumes them from the buffer.

step 10: - Refeat checking for producer and commen hill required

step11 - Teminok the process



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```
trogrom code ;
a) Sequential=
     # include < stdioh >.
     # includes conjo. h>
  Vold main ()
  { int f[50], i, st, lenj, c, K, count=0;
 (1=0ji(50) it+) f[i]=0;
 printf (" File Allocated are: In");
 X: count=0:
 point (" file allocated are: \n");
 printf ("Enter storting block and length of files:").
 sconf ("% d % d % d"; 1 st, &len);
 for (k=st; k< (st+len); k++){
 il (f(k)==0) count ++; }
 [ ( { len == count)
 { for (j=st; |< (st+len); j++)
 il (f[j] = =0)
& f[]]=1;
 printf ("%d It %d \n", j, f[j]); y.
if (il = (st + len -1))
exintf "The file is allocated to duk In"); )
parmif (" The file is not allocated (m");
 printf (" Do you want to enter more file ( Yes-1/ No-0)");
sconf("/6d", &c);
if (c==1)
goto 2;
exit();
setch (); y
```

Laodsow onthat 1file Allocatedore Enter starting block and length of file; 14 3 The file is allocated to disk Do you want to enter more file [Yes-1/No-0)1 Enter Starting block and length of file 214 1 The file is not allocated Do you want to enter more file (Yes-1/NO-0) 1 Enter starting block and length of file:- 144 The file is not allocated Do you want to enter more file (Yes -1/No -0) 0

```
b) Indexed
    #include astaloh
    #include (conio h>
 Void main ()
  Eint flood index [50], i, n, st, len j, c, k, ind, count=0.
 elrscr();
 for ( i=01 i < 50-1++) {
x: prm+f("Entethe block;");
scant ("1% d" & ind);
 il (f[ind]=1)
 E printf ("Enter no of blocks needed and no of file for index
fod on the disk in ( n jind);
 scont (" % d", &n); y
 else & printf (11 of dindex is already allocated In" mid);
yi count = 0;
 for ( =0; 1<n; 1++)
 ¿ sconfl''god", & indertin);
 1 f ( f [ index[i)] = =0)
 Com+++; 3(0-44 1-04)
 (count == n) {
 fox ( ,=0; j<n; j++)
 f[index[j]=1;
 prontf("Allocated \n");
 promote(" File indexed 17");
 for ( k = 0: k(n: k++)
prm+f("% d - -- > % d: % d\n" , 'Ind index( E), + Cindex[ E);
```

```
else
        printf ("file in the index is already allocated In");
   prontf ("Enter anotherfile indexed");
   gotoy; y
    front (" Po you want to enter more file (Yes-1/No-0);
     Sconf ("6d" by sold de side de service de la service de la
  8 c+ch(0)'9
   Enter the indexblock: 5
  Enter no of blocks needed and no of file for the Index 5 on the disk:
   Allocated
   File indexed
Do you want to enter more file (Yes-1/No-0)
```

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