Ex. No.: 10a)
Date: 09/04/2023

BEST FIT

Aim:

To implement Best Fit memory allocation technique using Python.

Algorithm:

1. Input memory blocks and processes with sizes

2. Initialize all memory blocks as free.

3. Start by picking each process and find the minimum block size that can be assigned to current process

4. If found then assign it to the current process.

5. If not found then leave that process and keep checking the further processes.

Program Code:

num_blocks = int (in put ("Enter the no of memory blocks"))

block_size = []

print ("Enter size of memory blocks")

For i in mange (num_blocks):

size = int (in put (F"size of block (it1)"))

block_sizes.append (size)

num_provers = int (in put (" In Enter the number of browsses:"))

provers_sizes = []

print ("Enter size of proverses")

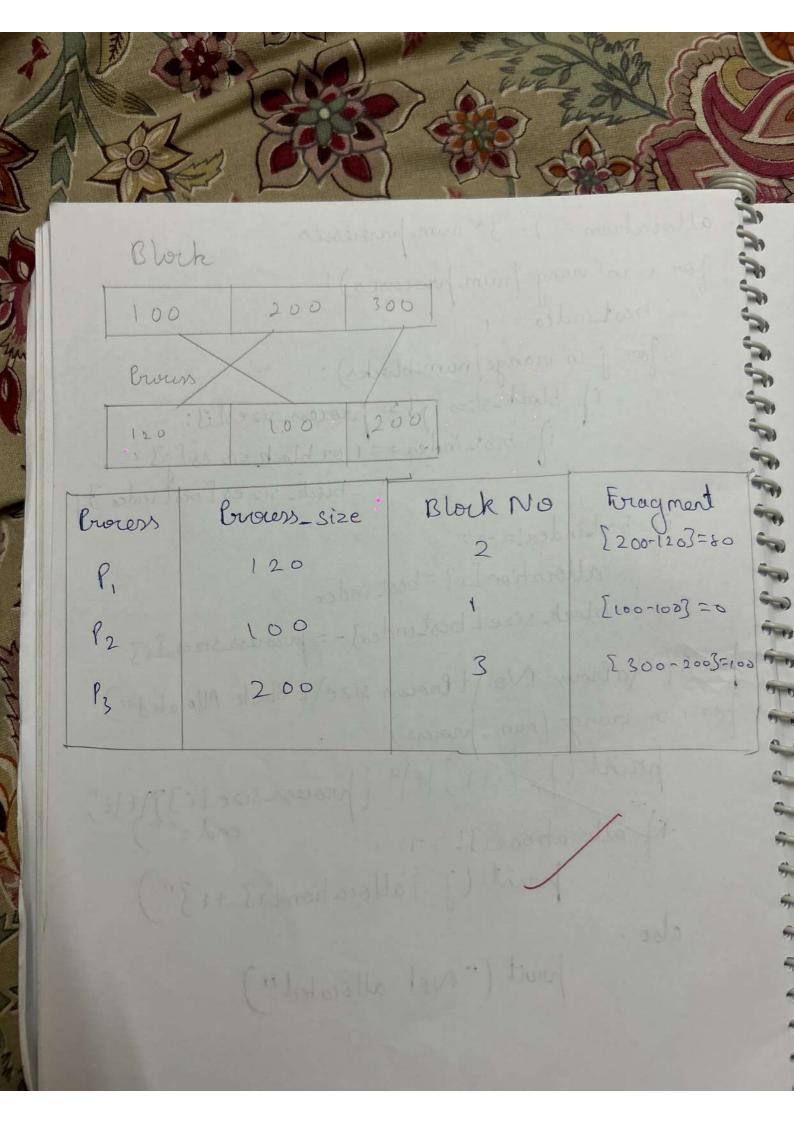
por i in mange (num_proverses):

size = int (in put (1"size of proverses (i+1):"))

brovers_size.append (size)

alloration = [-1] * num-processes for i is vange (num provesses): bestinder = -1 for j in vrange (numsblocks): if block-sizes [j] >= proven-sizes[j]:

if best-index == 1 or block-sizes[j] < block sizes [bestinder] if best-index!=-1 allocation [i3 = best index block-size [bestinded] -= process-sizes [i] print (n brocess No. / t brocess size / t Block Alocated") for i is vrange (num , process): print () (i+1) [t]t (process-size [i]] [t]t [t")
end="") if allocation [i]! =-1: print (j° (allocation [i] +13") puit ("Not allocated")



Sample Output:

Process No. 1 2 3	212 417 112	Block no. 4 2 3			
out hu	426	3	blocks:3		
Enter n	o of n	remory	blocks: 3		

200

Enter no of process: 3 Enter size of process:

120

200

brows No

brows Size

Block Allocated

Q 1.

200

2

Result:

Thus she python priogram to implement best fit was escented surrespully