Ex. No.: 10a)
Date: 09/04/2025

## **BEST FIT**

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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:
 # no of blocks
num_blocks = int (input ("Enter the no. of memory
   # enput of block sizes "))
   block-sizes = []
   print ("Enter size of memory blocke:")
    For i in range (num_blocks):
               size = int current (f"size of block & i+13:"))
                block_sizes.append (size)
   # no of process
   num-processes = int (input ("In Enter the number of
   # input of process sizes Processes: "))
    PSOUSS_ 81765 = []
    Print ("Enter sizes of processes: ")
     for i in range (num-processes):
                   size = int (input (f" size & process {i+18:"))
                   Process_ sizes append ( size)
```

allocation = [-1] \* num\_processes for i in range (num-processes): best \_ index = -1 for j in range ( num\_blocks): if block\_sizes [j] = process\_sizes[ i]: if best\_index==1 or block\_sizesej] L block\_sizes best\_inde best\_index = j if best\_endex! = -1: allocation (i) = best\_index block\_sizes [best\_endex] - = process\_sizes[i] print ("In process No. It Process size t Block Allocated") for i in range crum processes). Print (f" &i+131+1+ &proces\_sizes[i]3/th, end="") if allocation[i]!= -1: print (f" {allocation [i] + 14") elle: print ("Not Allocated")

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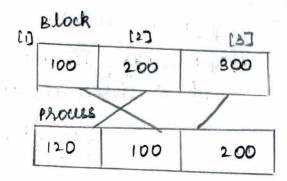
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Process.	Process_Sle	Block No	Fragment	
Ρ, /	100	2	[200-120] = 80	
P <sub>2</sub>	100	e Paristralia Common des	0 = [001-001]	
P <sub>3</sub>	200	1		
		13 3	[300 - 200]=100	

## Sample Output:

Process No. 1 2 3	Process Size 212 417 112	4 2 3			
entri Entu Entu 100	426 it: no.gf m sizes of	s emory memory	blocks:	. 3 1:	
300	200				
Entu Entu	no of sizes o				
120 100 200					
Prou	& No.	Process	size	_	Allocated
	-	120		2	

200

Result:

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Thus the python program to implement Best fit was executed successfully.

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