Ex. No.: 10a) Date: 9/4/25

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

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:

```
#include (sfdio. h>
  int block sige [10], procus ige [10], block Allocated [15],
int main ()}
  unt i, j, nb, np)
  Print ("Enter number of memory blocks: "):
  Scanf ("xd", &nb);
  Printf("Enter size of each memory block: In");
   for (1=0; 1< nb; 1+1) {
    printf(" Block 1. d", 9+1);
      scanf (" %d", & blocksize (i);
      block Allocatea [7]=0;
  Printf ("Entor number of Process: (n')
    Scanf ("/d", 2np);
  Printf ("Enter size of each processes: /n"):
   for (1:0; 1<pp) 1++)
     Printf ("process /dr, 1++);
```

scanf ("".d", & procus sige [1]); allocation [i] = -1; for (1=0; 12 np; 1++){ int bustIda = -1; for (j=0; j < nb; j+t){ if [! block Allocated [i] 29 block sige [i]>= Processinge [i]) } if (best Idn = = -1 11 block size [3] < block sige [best Ida]) best Idn = 3; if [bustIdn; = -1){ allocation [i] = best Idx; blockallucated [best I do] =1; Printf ["In Process No. It Process sign It Block No. (n"). for (i=o; icnp; i++){ Printf["Id It It is a It It is a It It', it, Process sige

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The	Remaining 90 15 13	foragments	of	block:
	5 2 h			

Process	Process-size	Block - NO	Fragment 13
Pi	20	3	13
P2	30	2	15
P ₃	50	5	20
Py Ps	40 10	4	5
			90

Sample Output:

Process No.	Process Size	Block no.
1	212	4
2	417	2
3	112	3
4	426	5

Result: Whing C program the best fit memory allocation algorithm implemented

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