Ex. No.: 10a)
Date: 11 d 04/25

BEST FIT

Aim:

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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:

```
# include (stdio.h)
Intmain() {
    int n, m;
    Prints ("Enter the no. of black");
   scant ("%.d", &n);
   Printf (" Enter no of processes");
   Seary ("40d", 2m);
   int blocks[n];
   int process[m];
   int ewocation [m];
  for (int i=0; i(m; i++) {
       sallocation[i] = -1;
for (int 1=0; 1 <n; 1++)
    Scanf ("/d", & blocks[i]);
  for (int 1=0; ixm; 1++){
      printf(" Enter process "od size: ", i+1);
     8 cant ("% d", 2 process[i]);
```

```
int best_index;
   for lint (=0; i/m; i++)
                                   with the control of
      best_index = -1;
     for (int j=0; j<n; j++)
        If (blocks [j] >= Process [i])
           if (blocks [j] < block [best_index])
            5
               best_Endex = j;
               auocation [i] = best_index;
               blocks[best_index] -= process[i];
             3
                                                 Block No ");
printf ("In Process no.
                              Process size
for (int i=o; ixm; i++)
Se
   if (allocation[i]=-1)
     Printf ("Inga It It god It It god", i+1, process[i],
    allocation[i]+1);
   } elses
     prints ("in 9 od tett 7 od tett Not Allocated", it, process (i));
```

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Output:

Enter no of black: 4

Block size:

BI -100

B2 - 500

B3 - 150

B4 - 300

Enten no-or processes: 3

Process size:

P1 - 99

P2 - 211

P3 -300

Process No	Process Stae	Block No
Pi	99	BI
P2	211	84
Pa	300	Ba

Sample Output:

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

Result:

Hence the best bit memory allocation technique has been executed successfully.