Ex. No.: 10a)
Date: 11. 04 - 28

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:

```
# include (stdio.h)
int main() {

int n, m;

printf ("Enter the no of block");

scanf ("1.d", &n);

printf ("Enter no of processes");

printf ("Enter no of processes");

scanf ("1.d, &m);

int blocks [n];

int process [m];

int allocation [m];

int allocation [m];

for (int i = 0; i < m; i ++)

{

allocation [i] = -1;

y

for (int i = 0; i < n; l++)

{

seanf ("1.d", & blocks [i]);

3
```

```
for (int i = 0; i < m; i++) {
  printf ("Forter process ", d size: ", i+1);
  scanf (0%d, & process [i]);
 fort best-index;
  forlint i=0; izm; i++)
   Ebest-index = -1;
     for (int j=0; j<n;j++)
     { if (blocks [j] > = procus [i])
        { if (block [j] < block [best-index])
           E best_index = j;
        3 g blocks [best-index] = = process[i];
                                Process size Block No") j
   printf ("In Process no.
   for (int i = 0; i < m; i++)
     { if (allocation [i]!=-1)
       2 printf (" \n 1,d \t \t 1,d \t \t xd", i+1,
                                 process[i], allocation[i]+1)
        else {
          printf (" In y.d It It Y.d It It Not allocated",
                                          iti, process[i]);
```

Ender no of block: 3

Block size:
250
400
150

Ender no of process: 3

100 200 300

Process no Process Size Block no

1 100 2
1 200
1 not allocated

Later 24 Mp 16 21 Met allocat

" (11 x x 11 / x d 16/ x x 2 17 16

Marand (1+)

Sample Output:

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

Thus the c program for best fit memory allocation has been succenfully executed.