Ex. No.: 10a) Date: O9 /04/2B

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.
- 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:

```
def bestfit (bsize, m, psize, n):
   alloc = 1-1]* n
   for i in range (n):
       bestidx =-1
      for jin range (m):
          if 'bsize[j] >= psize[i]:
             if bestidx ==-1:
                 bestldx =j
             elif bsize [bestld ] > bsize [j];
                 bestidx = j
      if best Idx 1 =- 1:
         alloc[i] = bestidx
         bsize [bestidx] - - psize[i]
for I'm range (n):
   print (i+1, " ", psize[i], end="
                                             11)
   if (alloc [1]] = - 1):
      Print (aloc [i]+1)
   else:
      print ("Not Ablocated")
```

if _ name _ == '_ main_';

bsize = [1000, 500, 200, 300, 600]

psize = [212, 419,312, 426]

m = Len (bsize)

n = Len (psize)

bestfit (beize, m, psize, n)

Output :-

Process No	Process Size	Black no
1	212	4
2	419	2
3	312	5
4	426	Not Allocated

Sample Output:

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

Result:

Hence the Best Fit for the given processes is Implemented and Verified