Ex. No.: 10 a Date: 30/4/24

## 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: // bestfit.c
#include (Stdio.h)
Hindude (string. 11)
void bestfit (int block Size [] just m, int process Size (), int n) {
           int allocation(n);
           memset ( allocation, -1, sizeof(allocation));
          for (inti=0; i<n; i++){
                   int best Idx = -1;
                   BYL int j=0; j<mij++)&
                            if ( blocksize [j] > = processsize [i])
                                     if UsestIdx==-1)
                                           best Idx=1;
                                      else if ( best tolk) > blocksize ( best tolk) > blocksize ( )
                                           bestidx=j;
                 if (bestEdx!=&-1) {
aboution (i) = best Idx;
                       blocksize (bestfoli) -= processize (i);
```

```
printf("in Process No. It Process Size It BlockNa In");
  for (int i=0; i <n; i++) {
         printf(" 1.d ttlt.1.d", i+1, process size (i]);
         if (allocation [i] 1=-1)
              printf("1+1+1.d", allocation (i]+1);
          else
             printf("In Not Allowed");
             print (" \n");
          2
int main()
     int blacksize ( ]= { 100, 500, 200, 300, 600}
     int processize []= { 212, 417, 112, 426}
     int m= sixof (blocksine)/sixof(dousire(b));
      int n= size of (processize (o));
      bestfit (blocksize, m, processize, n);
      return 0;
```

Output:

gu bestfit.c

Process No.	Processice	Block No.
1	212	4
2	417	2
3	112	73
4	426	5

CESUUT:

The program has been compiled and executed successfully.

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