Ex. No.: 10a)
Date: 9 4 5

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.

 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:

winclade <stdio-es

wit main 1)

{ wit blo [w], pro [o], blockal [w), alo [w);

wit 1, j, nb, np;

\$canf (" / d", &nb);

for [i=0; i 2 nb ; 1++)

{ sanf (" / d", & block i);

blockal [i]=0;

sanf (" / d", & block i);

alofi)=-1;

g

y

alofi)=-1;

```
for (i=0 : iznp ii++)
                                                                                                               unt best Ida = -1;
3333355555555555555555555555555555
                                                                                                                for 1j=0 ; j znb ; j++)
                                                                                                                                                         if (! blockal [j] ssblocker [j]>=
                                                                                                                                                                                                                                                                                                                                                per (17)
                                                                                                                                                                                                                 if (bet Ida ==-1 | | bocki) <
                                                                                                                                                                                                                                                                                                                    blo[best Ida])
                                                                                                                                                                                                                                                              hest Idx =j;
                                                                                                                                                                                       if [best Ida!:-1)
                                                                                                                                                                                                                                allo [i] - best Ida;
                                                                                                                                                                                                                               blockal [best Ida]: 4;
                                                                                                                  peintf(:/-a |+ |+ /. a |+ /.
                                                                         for [1:0:12np 11:4+)
                                                                                                                                                                                                                                                     60
```

Paucess Pi	Process-size	Block-NO 3	Flagment 13	
P2	30	2	15	
P3	50	5	80	
P4	40	4	5	
Ps	10	1	90	
90 15 13 5 20	remaining fra	Juleals :		

Sample Output:

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

Using a the best fit memory allocation algorithm is uniplemented.