Ex. No.: 10a)
Date: 4 1 1 25

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 2stdbool.h)

#include 2stdbool.h)

int main() {

int n, m;

Printf("Enter the no of processes & blocks.");

Scanf("Y'd Y'd", &n, &m);

int p[n], b[m];

printf("Enter the two of processes:\n");

for (int i=0; i\n; i+t)

{

Scanf("Y'd", &p[i]);

Printf("Enter the sizes of memory blocks!n:");

Printf("Enter the sizes of memory blocks!n:");

for (int i=0; i\n; i+t) {

Scanf("Y'd", &b[i]);

int f(n], f2[m];

```
fonlint 1:0 ; (an) (44) }
  fox (int ico ; 12m; 1++) ?
         f=1:7=0;
  tox (int 1=0) (2n) 1++) {
         "ut k=-1;
      for(int jeo ijem ; j++) {
            4 (b[i]>= p[i] 88 f2[i]==0){
                 y (k==-1 | b(k] > b(j)) {
                          Kej i
            f [i] = k;
            f[k]=1;
printf (" Process NO.
                          Process Size.
           Block No. In");
for lint i=0; izn; i++){
  4 (fci] 1=-1)
         paint f (" "/d" /.d" /.d

1+1, P[i], f[i]+1);
                                 7. d
                                           Ldin"
   else
       Printf (" 1.d
                                           1. 3\n4
                  i+1, PC:], "Not Albeated");
```

3

Sample Output:

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

Input

Enter the no of processes & blocks: 3 3 Enter the sixes of the processes: 100 200 300 Enter the Sizes of Memory blocks: 250 · 100 150

Processino.	process size,	Block No.
1	100	2
2	9 00	1
3	300	Not Allocated.

Result)

Thus the c program for best fit !.
Successfully executed.

Ex. No.: 10b)
Date: 11 14 28

FIRST FIT

Aim:

To write a C program for implementation memory allocation methods for fixed partition using first fit.

Algorithm:

1. Define the max as 25.

2: Declare the variable frag[max],b[max],f[max],i,j,nb,nf,temp, highest=0, bf[max],ff[max]. 3: Get the number of blocks, files, size of the blocks using for loop.

4: In for loop check bf[j]!=1, if so temp=b[j]-f[i]

5: Check highest

Program Code:

3

3

5

5

->

#include \(\) station \(\)

include \(\) station \(\)

int main() \(\)

int n, m;

printf("Enter the no of processes & blocks: ");

Scanf("'/'d '/', &n. &m);

int P[n], b[m];

printf("Enter the Sizes of the processes \(\) \(\) \(\)

for (int i=0; izn; i+t) \(\)

Printf("Enter the Sizes of memory blocks: \(\) \(\);

for (int i=0; izm; i+t) \(\)

Scanf("'/', d", & b[i]);

```
int find, folimli
fortint isor ich 1144) {
        A(1): -13
for (int is a i ism; i+4)}
        f2[:7:0:
for (int i=0; i<n; i++) }
        fox (int ; co ; jcm; j++) {
               Y(b[i]>= P[i] 8.8 f2[i]==0){
                     く(いこう)
                     f2[i]=1;
                     buaki
               3
         3
     Printf ( Process NO.
                                               BlockNO.
                            Process Size.
                                   Block size. Fragment);
     for(int i=0; i<n; i++) {
          if(f[i] |=-1)
           Printfl" y.d
                             1.d
                                         y.dln", itl
                                        P(1), f[1]+1, $
           Else
                                        BEFCID, BEFCID-
                                                     PCIJA
              PrintfC"/d
                                     1/2/n" it!
                              1/id
                                   P[i], "Not Allocated):
```

Sample Output:

4

Enter the number of processes & blocks: 4 5
Enter the Sizes of the processes:
212 417 112 426
Enter the Sizes of the memory blocks:
100 500 200 300 600

100 500	200 500 600		Back	Feagment
PROCES NO.	process Size.	Block NO.	FLOGMEN	288
2	ПП	8	6 00	183
3	112	3	206	88
4	426	Not allowated		

plack size

Result: 4 26 Not Allocated

Thus the e program for first fit is executed Successfully