OPERATING SYSTEM - CS23431

EXP 10

BEST FIT

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PROGRAM(PYTHON):

```
n1=int(input("Enter memory block size: "))
memory block=[0]*n1
print("Enter value for memoryblocks")
for i in range(n1):
  memory block[i]=int(input())
n2=int(input("Enter process block size: "))
process block=[0]*n2
print("Enter value for processblocks")
for i in range(n2):
  process block[i]=int(input())
alloc=[0]*n2
for i in range(n1):
  bestfit ind=-1
  minrem_memory=float('inf')
  for j in range(n2):
    if memory block[i]>=process block[i]:
      rem_memory=memory_block[j]-process_block[i]
       if rem memory<minrem memory:
         minrem memory=rem memory
         bestfit ind=j
  if bestfit ind!=-1:
    alloc[i]=bestfit ind
    memory block[bestfit ind]-=process block[i]
print(alloc)
```

OUTPUT:

```
Exiting...[student@localhost ~]$ vi bestfit.py
[student@localhost ~]$ python3 bestfit.py
Enter memory block size: 5
Enter value for memoryblocks
100
500
200
300
400
Enter process block size: 5
Enter value for processblocks
350
250
600
100
[4, 2, 3, 0, 0]
[student@localhost ~]$
```