### **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[i]-process block[i]
       if rem memory<minrem memory:
         minrem memory=rem memory
         bestfit ind=i
  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
I
400
Enter process block size: 5
Enter value for processblocks
350
250
600
100
[4, 2, 3, 0, 0]
[student@localhost ~]$
```