**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[j]>=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:**

