## OPERATING SYSTEM - CS23431 EXP 10(a) BEST FIT

NAME: KEERTHANA.S ROLL NO: 230701149

```
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
 Enter process block size: 5
 Enter value for processblocks
```