Ex. No.: 10A Roll no:231901004

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BEST FIT

Aim:

To implement the Best Fit memory allocation technique using Python.

Algorithm:

- 1. Input memory blocks and processes with their sizes.
- 2. Initialize all memory blocks as free.
- 3. For each process, find the smallest memory block that can accommodate it.
- 4. If such a block is found, allocate it to the process.
- 5. If no suitable block is found, leave the process unallocated.

Program Code (best_fit.py):

```
print(f"{i + 1}\t\t{processSize[i]}\t\t", end="")
    if allocation[i] != -1:
        print(f"{allocation[i]}")
    else:
        print("Not Allocated")

# Example usage blockSize = [100,
500, 200, 300, 600] processSize =
[212, 417, 112, 426]
```

Sample Output:

best_fit(blockSize, processSize)

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

Result:

Thus, the Best Fit memory allocation technique was successfully implemented in Python.