

IT253 LAB ASSIGNMENT-4

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TOPIC: FIRST-FIT, BEST-FIT, WORST-FIT
ALGORITHMS

Q1. Implement First-Fit algorithm.

NOTE: The below problem is taken as input for all algorithms.

Process	Size
1	200
2	300
3	150
4	450

Block	Size
1	100
2	500
3	200
4	300
5	600

```
C:\Users\TG\Desktop\191IT109_LabAssignment-4>python first_fit.py
Enter no. of blocks in memory:5
Enter size of each block:
Block 1: 100
Block 2: 500
Block 3: 200
Block 4: 300
Block 5: 600
Enter no. of processes:4
Enter size of each process:
Process 1: 200
Process 2: 400
Process 3: 150
Process 4: 450
Process ProcessSize      Block  BlockSize
1         200           2         500
2         400           5         600
3         150           3         200
4         450          N/A         N/A
```

Q2. Implement Best-Fit algorithm.

```
C:\Users\TG\Desktop\191IT109_LabAssignment-4>python best_fit.py
Enter no. of blocks in memory:5
Enter size of each block:
Block 1: 100
Block 2: 500
Block 3: 200
Block 4: 300
Block 5: 600
Enter no. of processes:4
Enter size of each process:
Process 1: 200
Process 2: 400
Process 3: 150
Process 4: 450
Process ProcessSize      Block  BlockSize
1         200            3         200
2         400            2         500
3         150            4         300
4         450            5         600
```

Q3. Implement Worst-Fit algorithm.

```
C:\Users\TG\Desktop\191IT109_LabAssignment-4>python worst_fit.py
Enter no. of blocks in memory:5
Enter size of each block:
Block 1: 100
Block 2: 500
Block 3: 200
Block 4: 300
Block 5: 600
Enter no. of processes:4
Enter size of each process:
Process 1: 200
Process 2: 400
Process 3: 150
Process 4: 450
Process ProcessSize      Block  BlockSize
1         200            5         600
2         400            2         500
3         150            4         300
4         450           N/A         N/A
```