### **ASHNA SHAIKH**

# [DT-22019]

### **OPERATING SYSTEM LAB**

[CT-353]

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## **LAB 09**

#### CODE:

#### **OUTPUT:**

```
Enter the number of processes: 4
Enter the number of blocks: 5
Enter the size of each process:
Process 0: 212
Process 1: 417
Process 2: 112
Process 3: 426
Enter the block sizes:
Block 0: 100
Block 1: 500
Block 2: 200
Block 3: 300
Block 4: 600
1. First Fit
2. Best Fit
3. Worst Fit
Enter your choice: 1
First Fit
Process 0 of size 212 is allocated in block 1 of size 500
Process 1 of size 417 is allocated in block 4 of size 600
Process 2 of size 112 is allocated in block 2 of size 200
Process 3 of size 426 is not allocated
Enter your choice: 2
Best Fit
After sorting block sizes:
Block 0: 100
Block 1: 200
Block 2: 300
Block 3: 500
Block 4: 600
```

```
Best Fit
After sorting block sizes:
Block 0: 100
Block 1: 200
Block 2: 300
Block 3: 500
Block 4: 600
Process 0 of size 212 is allocated in block 2 of size 300
Process 1 of size 417 is allocated in block 3 of size 500
Process 2 of size 112 is allocated in block 1 of size 200
Process 3 of size 426 is allocated in block 4 of size 600
Enter your choice: 3
Worst Fit
After sorting block sizes:
Block 0: 600
Block 1: 500
Block 2: 300
Block 3: 200
Block 4: 100
Process 0 of size 212 is allocated in block 0 of size 600
Process 1 of size 417 is allocated in block 1 of size 500
Process 2 of size 112 is allocated in block 2 of size 300
Process 3 of size 426 is not allocated
Enter your choice:
```

```
C:\Users\marya\Downloads\O × + ~
Enter number of processes: 3
Enter number of resources: 4
Enter Claim Vector: 10 5 7 8
Enter Allocated Resource Table:
0 1 0 0
2001
3 0 2 1
Enter Maximum Claim Table:
7 5 3 4
3 2 2 2 9 0 2 2
                                           7
The Claim Vector is:
                          10
The Allocated Resource Table:
        Θ
                 1
                          Θ
                                   Θ
        2
                 Θ
                          Θ
                                   1
        3
                 Θ
                          2
                                   1
The Maximum Claim Table:
                          3
                 5
                                   4
        3
                 2
                          2
        9
                 0
                          2
                                   2
                                           2
5
Allocated resources:
                          5
Available resources:
                                   4
                          5
Process2 is executing
The process is in safe state
                                                    7
Available vector:
                                           5
                                   4
Process1 is executing
The process is in safe state Available vector: 7
                                   5
                                           5
                                                    7
```

Process3 is executing

The process is in safe state

Available vector: 10 5 7 8

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Process exited after 47.61 seconds with return value 0

Press any key to continue . . .