NAME: - Shaikh Areeba Mohammed Ismail

ROLL NO:- 46

CLASS/BATCH:- TE-B-2

Practical No:- 05

Write a program to simulate Memory placement strategies – best
fit, first fit, and next fit and worst fit.

//JAVA CODE – Worst Fit

```
public class WorstFitMemoryAllocation {     public
static void main(String[] args) {         int
memoryBlocks[] = {100, 500, 200, 300, 600};         int
processes[] = {212, 417, 112, 426};         int
allocation[] = new int[processes.length];

        // Initialize allocation as -1 (not allocated)
for (int i = 0; i < allocation.length; i++) {
allocation[i] = -1;

        }

        // Allocate memory to each process         for
(int i = 0; i < processes.length; i++) {
int worstIdx = -1;             for (int j = 0; j <
memoryBlocks.length; j++) {                 if
(memoryBlocks[j] >= processes[i]) {
if (worstIdx == -1 || memoryBlocks[j] >
memoryBlocks[worstIdx]) {

                        worstIdx = j;

                    }

                }

            }

            if (worstIdx != -1) {

                // Allocate process i to block worstIdx
allocation[i] = worstIdx;
memoryBlocks[worstIdx] -= processes[i];

            }

        }

        // Print allocation results

        System.out.println("Process No.\tProcess
Size\tBlock No.");         for (int i = 0; i <
processes.length; i++) {
```

```
            System.out.print((i + 1) + "\t\t" +
processes[i] + "\t\t");             if (allocation[i]
!= -1)

                System.out.println((allocation[i] + 1));

            else                System.out.println("Not
Allocated");

        }

    }

}
```

OUTPUT:

Process No.	Process Size	Block No.
1	212	5
2	417	2
3	112	5
4	426	Not Allocated