Priority.Java

```
class Priority {
   void priority(String processes[], int n, int burstTime[], int priority[]) {
      int numberOfProcess = n;
      int temp;
      String temp2;
      // Sorting process & burst time by priority
      for (int i = 0; i < numberOfProcess - 1; i++) {
         for (int j = 0; j < numberOfProcess - 1; j++) {
            if (priority[j] > priority[j + 1]) {
               temp = priority[j];
               priority[j] = priority[j + 1];
               priority[j + 1] = temp;
               temp = burstTime[j];
               burstTime[j] = burstTime[j + 1];
               burstTime[j + 1] = temp;
               temp2 = processes[j];
               processes[j] = processes[j + 1];
               processes[j + 1] = temp2;
            }
         }
      }

      // TAT - Turn Around Time
      int TAT[] = new int[numberOfProcess + 1];
      int waitingTime[] = new int[numberOfProcess + 1];
      // Calculating Waiting Time & Turn Around Time
      for (int i = 0; i < numberOfProcess; i++) {
         TAT[i] = burstTime[i] + waitingTime[i];
         waitingTime[i + 1] = TAT[i];
      }
      // WT = waiting Time
      int totalWT = 0;
      int totalTAT = 0;
      double avgWT;
      double avgTAT;
      // Print Table
      System.out.println("Process BT WT TAT");
      for (int i = 0; i < numberOfProcess; i++) {
         System.out.println(processes[i] + " " + burstTime[i] + " " + waitingTime[i] + " " + (TAT[i]));
         totalTAT += (waitingTime[i] + burstTime[i]);
         totalWT += waitingTime[i];
      }
      avgWT = totalWT / (double) numberOfProcess;
      avgTAT = totalTAT / (double) numberOfProcess;
      System.out.println("\n Average Wating Time: " + avgWT);
      System.out.println(" Average Turn Around Time: " + avgTAT);
   }
}
```