```
import java.util.Scanner;
class FCFS {
  // Function to find the waiting time for all
  // processes
  static void findWaitingTime(int processes[], int n,
                     int bt[], int wt[]) {
     // waiting time for first process is 0
     wt[0] = 0;
     // calculating waiting time
     for (int i = 1; i < n; i++) {
        wt[i] = bt[i-1] + wt[i-1];
  // Function to calculate turn around time
  static void findTurnAroundTime(int processes[], int n,
                       int bt[], int wt[], int tat[]) \{
     // calculating turn around time by adding
     // bt[i] + wt[i]
     for (int i = 0; i < n; i++) {
        tat[i] = bt[i] + wt[i];
     }
  //Function to calculate average time
  void findavgTime(int processes[], int n, int bt[]) {
     int wt[] = new int[n], tat[] = new int[n];
     int total wt = 0, total tat = 0;
     //Function to find waiting time of all processes
     findWaitingTime(processes, n, bt, wt);
     //Function to find turn around time for all processes
     findTurnAroundTime(processes, n, bt, wt, tat);
     //Display processes along with all details
     System.out.printf("Processes Burst time Waiting"
          +" time Turn around time\n");
     // Calculate total waiting time and total turn
     // around time
     for (int i = 0; i < n; i++) {
       total wt = total wt + wt[i];
        total tat = total tat + tat[i];
        System.out.printf(" %d ", (i + 1));
        System.out.printf(" %d ", bt[i]);
        System.out.printf(" %d", wt[i]);
        System.out.printf(" %d\n", tat[i]);
     float s = (float)total wt /(float) n;
     int t = total tat / n;
     System.out.printf("Average waiting time = \%f", s);
     System.out.printf("\n");
     System.out.printf("Average turn around time = %d ", t);
//Shortest Remaining Time First(SJF preemptive)
class Process
{
```

```
int pid; // Process ID
int bt; // Burst Time
int art; // Arrival Time

public Process(int pid, int bt, int art)
{
    this.pid = pid;
    this.bt = bt;
    this.art = art;
}
```