All.java

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import java.util.Scanner;

public class All {
    public static void main(String[] args){
        FCFS fcfs = new FCFS();
        Priority pr = new Priority();
        Scanner scan = new Scanner(System.in);
        while(true){
            System.out.println("\n The available algorithms are: ");
            System.out.println("1. FCFS");
            System.out.println("2. Priority");
            System.out.println("3. Exit");
            System.out.println("Choose your algorithm: ");
            int algo = scan.nextInt();
            if (algo==1){
                System.out.println("Enter the number of processes: ");
                int n = scan.nextInt();
                int[] processes = new int[n];
                //Burst time of all processes
                int[] burst_time = new int[n];
                System.out.println("Enter the processes: ");
                for (int i = 0; i < n; i++){
                    processes[i] = scan.nextInt();
                }
                System.out.println("Enter the Burst time for he processes: ");
                for (int i = 0; i < n; i++){
                    burst_time[i] = scan.nextInt();
                }
                fcfs.findavgTime(processes, n, burst_time);
            }
            else if(algo==2){
                System.out.println("Enter the number of processes: ");
                int n = scan.nextInt();
                String processes[] = new String[n];
                int burstTime[] = new int[n];
                int priority[] = new int[n];
                int p = 1;
                for (int i = 0; i < n; i++) {
                    processes[i] = "P" + p;
                    p++;
                }
                System.out.print("Enter the Burst time for the processes: ");
                for (int i = 0; i < n; i++) {
                    burstTime[i] = scan.nextInt();
                }
                System.out.print("Enter Priority for the processes: ");
                for (int i = 0; i < n; i++) {
                    priority[i] = scan.nextInt();
                }
                pr.priority(processes, n, burstTime, priority);
            }
            else if(algo==3){
                System.out.println("Exiting the code...");
                break;
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            }
            else{
                System.out.println("Invalid Input");
            }
        }
        scan.close();
    }
}
```