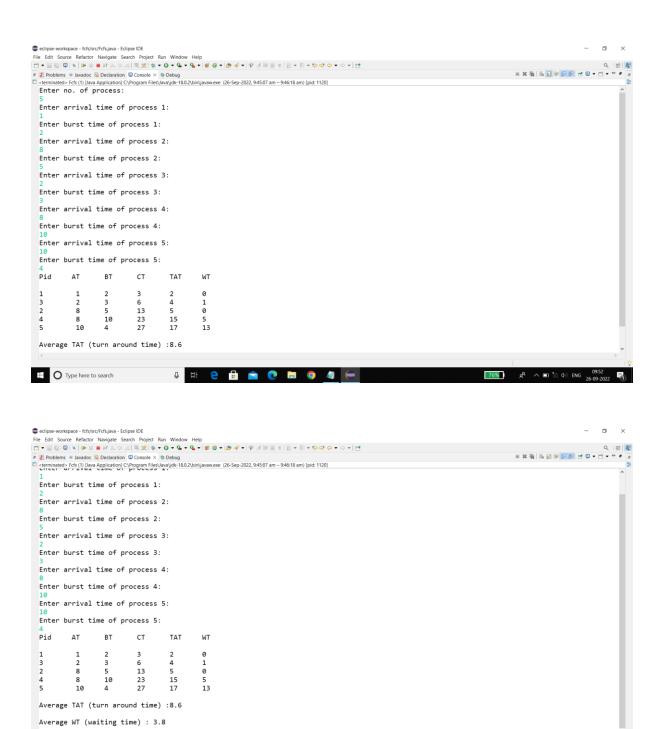
## **FCFS**

```
import java.util.*;
public class fcfs
{
       public static void main(String args[])
       {
               Scanner sc=new Scanner(System.in);
               System.out.println("Enter no. of process: ");
               int n=sc.nextInt();
               int pid[]=new int[n];
               int at[]=new int[n];
               int bt[]=new int[n];
               int ct[]=new int[n];
               int tat[]=new int[n];
               int wt[]=new int[n];
               int temp;
               float avg_wt=0,avg_tat=0;
               for(int i=0; i<n; i++)
               {
                       System.out.println("Enter arrival time of process " +(i+1)+ ":");
                       at[i]=sc.nextInt();
                       System.out.println("Enter burst time of process " +(i+1)+ ":");
                       bt[i]=sc.nextInt();
                       pid[i]=i+1;
               }
               for(int i=0; i<n; i++)
               {
```

```
for(int j=0; j< n-(i+1); j++)
        {
                if(at[j] > at[j+1])
               {
                        temp = at[j];
                        at[j] = at[j+1];
                        at[j+1] = temp;
                        temp = bt[j];
                        bt[j] = bt[j+1];
                        bt[j+1] = temp;
                        temp = pid[j];
                        pid[j] = pid[j+1];
                        pid[j+1] = temp;
               }
        }
}
for(int i=0; i<n; i++)
{
        if(i == 0)
        {
                ct[i]= at[i]+bt[i];
        }
        else
        {
               if( at[i]>ct[i-1])
                {
                        ct[i]= at[i] +bt[i];
               }
```

```
else
                                ct[i]= ct[i-1] +bt[i];
                   }
                   tat[i] = ct[i] - at[i];
                   wt[i] = tat[i] - bt[i];
                   avg_wt += wt[i];
                   avg_tat += tat[i];
            }
            System.out.println("Pid\tAT\tBT\tCT\tTAT\tWT\n");
            for(int i=0; i<n; i++)
            {
                   + tat[i] + "\t" + wt[i]);
            }
            System.out.println("\nAverage TAT (turn around time):"+(avg_tat/n));
            System.out.println("\nAverage WT (waiting time) : "+ (avg_wt/n));
            sc.close();
      }
}
```



76% x<sup>Q</sup> ^ **II** ½ (1) ENG 09:53 26:09-2022

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