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| --- |
| user/bin/python3 |
|  |  |
|  | arr = [] |
|  | wait\_time = 0.0 |
|  | n = int(raw\_input('Enter the No. of Process : ')) |
|  |  |
|  | for i in xrange(n): |
|  | arr.append([]) |
|  | print ' ' |
|  | arr[i].append(raw\_input('Enter Process Name : ' )) |
|  | arr[i].append(int(raw\_input('Enter Arrival Time '))) |
|  | arr[i].append(int(raw\_input('Enter Burst Time :'))) |
|  | print ' ' |
|  |  |
|  |  |
|  | arr.sort(key = lambda arr:arr[1]) |
|  |  |
|  | wait = [] |
|  | j = 1 |
|  | service = [] |
|  | service.append(arr[0][1]) |
|  | wait.append(service[0] - arr[0][1]) |
|  |  |
|  | while (j<n): |
|  | service.append(service[j-1] + arr[j-1][2]) |
|  | wait.append(service[j] - arr[j][1]) |
|  | wait\_time += wait[j] |
|  | j += 1 |
|  |  |
|  | print 'Process Name \tArrival Time \t Burst Time \t Service Time \t Waiting Time' |
|  | for i in xrange(n): |
|  | print arr[i][0] ,'\t\t' ,arr[i][1] ,'\t\t', arr[i][2], '\t\t',service[i],'\t\t',wait[i] |
|  |  |
|  | print 'Total Waiting Time : ',wait\_time |
|  | print 'Average Waiting Time : ',(wait\_time/(n\*1.0)) |