

Operációs rendszerek BSc

6. Gyak.

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Készítette:

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Programtervező informatikus

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1. feladat – FCFS, SJF megoldás

The screenshot displays the Microsoft Excel interface with two tables and their visual representations as Gantt charts.

Table 1:

| | A | B | C | D | E | F |
|------|---------|---------|---------|-----------|-----------|---|
| FCFS | Erkezés | CPU idő | Indulás | Befejezés | Várakozás | |
| P1 | 0 | 3 | 0 | 3 | 0 | |
| P2 | 1 | 8 | 3 | 11 | 2 | |
| P3 | 3 | 2 | 11 | 13 | 8 | |
| P4 | 9 | 20 | 13 | 33 | 4 | |
| P5 | 12 | 5 | 33 | 38 | 21 | |

Gantt Chart 1: Visualizes the execution times from the first table across columns I to X. The chart shows horizontal bars for each process (P1-P5) with colors indicating different phases or states.

Table 2:

| SIF | Erkezés | CPU idő | Indulás | Befejezés | Várakozás | Lengvidékebb |
|-----|---------|---------|---------|-----------|-----------|--------------|
| P1 | 0 | 3 | 0 | 3 | 0 | P1 |
| P2 | 1 | 5 | 3 | 8 | 2 | P2 |
| P3 | 3 | 2 | 8 | 10 | 5 | P3 |
| P4 | 9 | 5 | 10 | 15 | 1 | P4 |
| P5 | 12 | 5 | 15 | 20 | 3 | P5 |

Gantt Chart 2: Visualizes the execution times from the second table across columns I to X. Similar to the first chart, it uses colored bars to represent the timeline for processes P1 through P5.

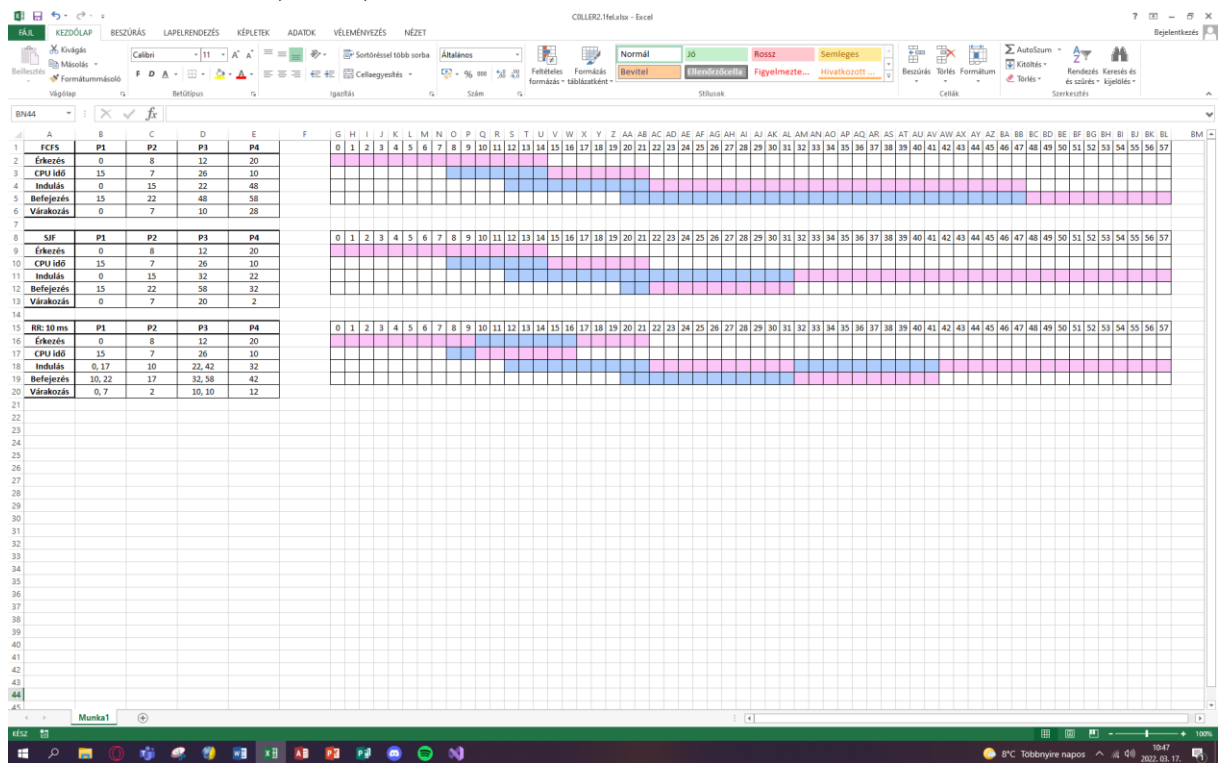
2. feladat – RR: 5 ms megoldás

The screenshot shows a Microsoft Excel spreadsheet with the following data:

| | A | B | C | D | E | F | G |
|---|---------|---------|---------|---------|-----------|-----------|-------------------|
| 1 | ABC Sms | Erkezés | CPU IDő | Indulás | Befejezés | Várakozás | Várakozó-procésze |
| 2 | P1 | 0 | 3 | 0 | 3 | 0 | P2 |
| 3 | P2 | 1 | 8 | 3, 10 | 8, 13 | 2, 2 | P3, P3 |
| 4 | P3 | 3 | 2 | 8 | 10 | 5 | P2, P4 |
| 5 | P4 | 9 | 20 | 13, 23 | 18, 38 | 4, 5 | P4 |
| 6 | P5 | 12 | 5 | 18 | 23 | 6 | P4 |

The spreadsheet also includes a monthly timeline from January (I) to April (AV) at the bottom, with various colored cells indicating task durations or dependencies.

1. feladat – FCFS, SJF, RR: 10 ms



2. feladat – RR: 10 ms

