

Rules

- solve from 1 to 7
- for each one upload it to GitHub with repo readme with details , description, tags

1. Smart Number Analyzer

User enters a list of numbers. Program prints:

- min, max, average
- how many are prime
- how many are even vs odd

2. Text Statistics Engine

User enters a paragraph. Program outputs:

- total characters
- total words
- unique words
- most common word (ignore case & punctuation)

3. Password Strength Validator

Validate a password using rules:

- min length
- at least 1 uppercase, 1 lowercase, 1 digit, 1 special char
- no repeated sequence longer than 2 chars

4. Simple Banking System (Console)

Simulate bank accounts:

- create account
- deposit / withdraw
- transfer between accounts
- prevent negative balance

5. Task Scheduler (Logic Version)

User adds tasks with:

- name
- priority (1–5)
- deadline (string)

Program outputs tasks sorted by:

1. priority
2. earliest deadline

6. Inventory Management with Constraints

Manage product inventory:

- add/remove items
- track quantity
- block selling more than available
- warn when stock < threshold

7. Log File Analyzer

Parse logs from file like:

```
[2025-01-01 10:00] ERROR User not found
```

create a logs file with dummy data

Output:

- count per log level
- busiest hour
- most common error message