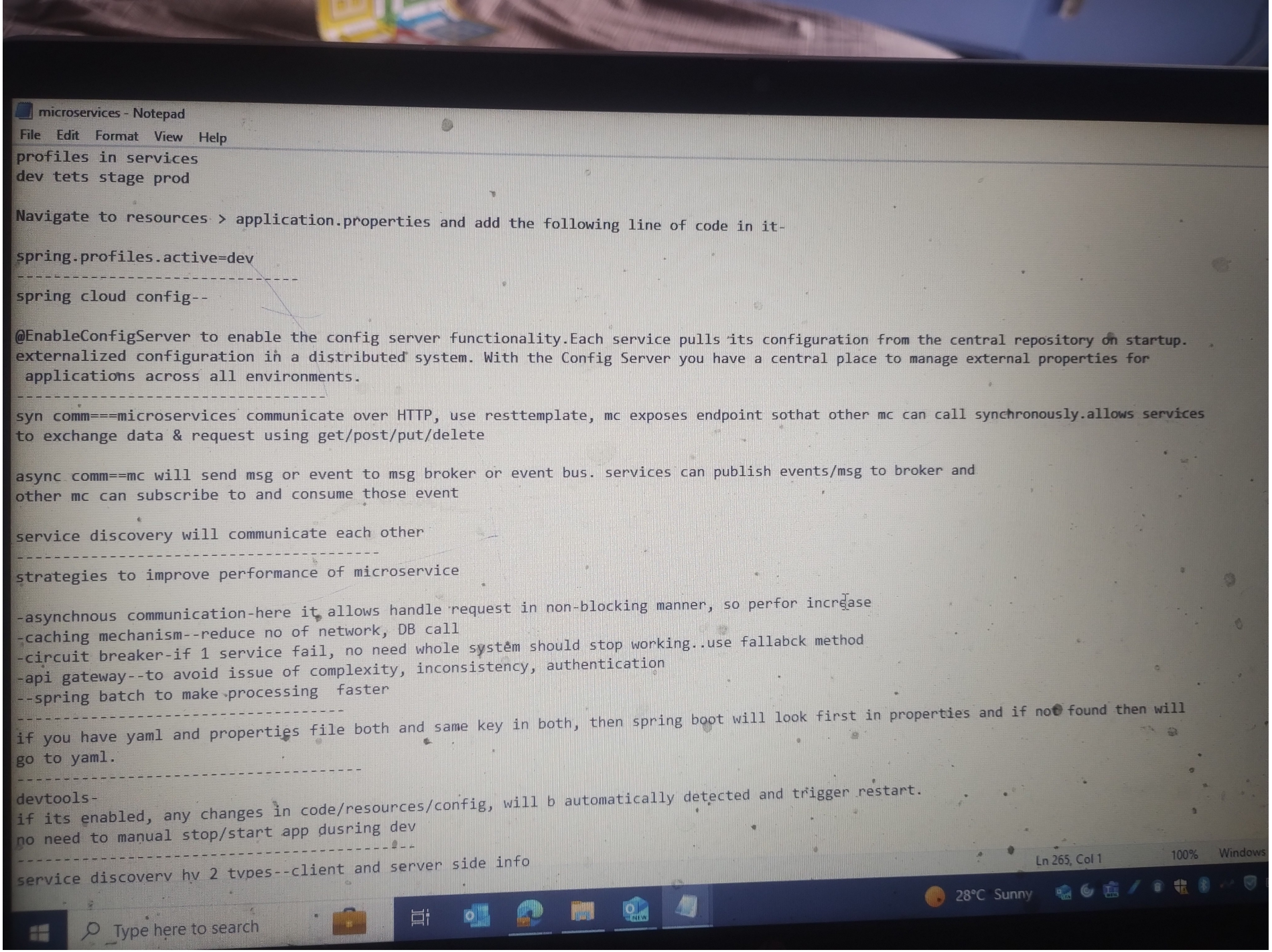

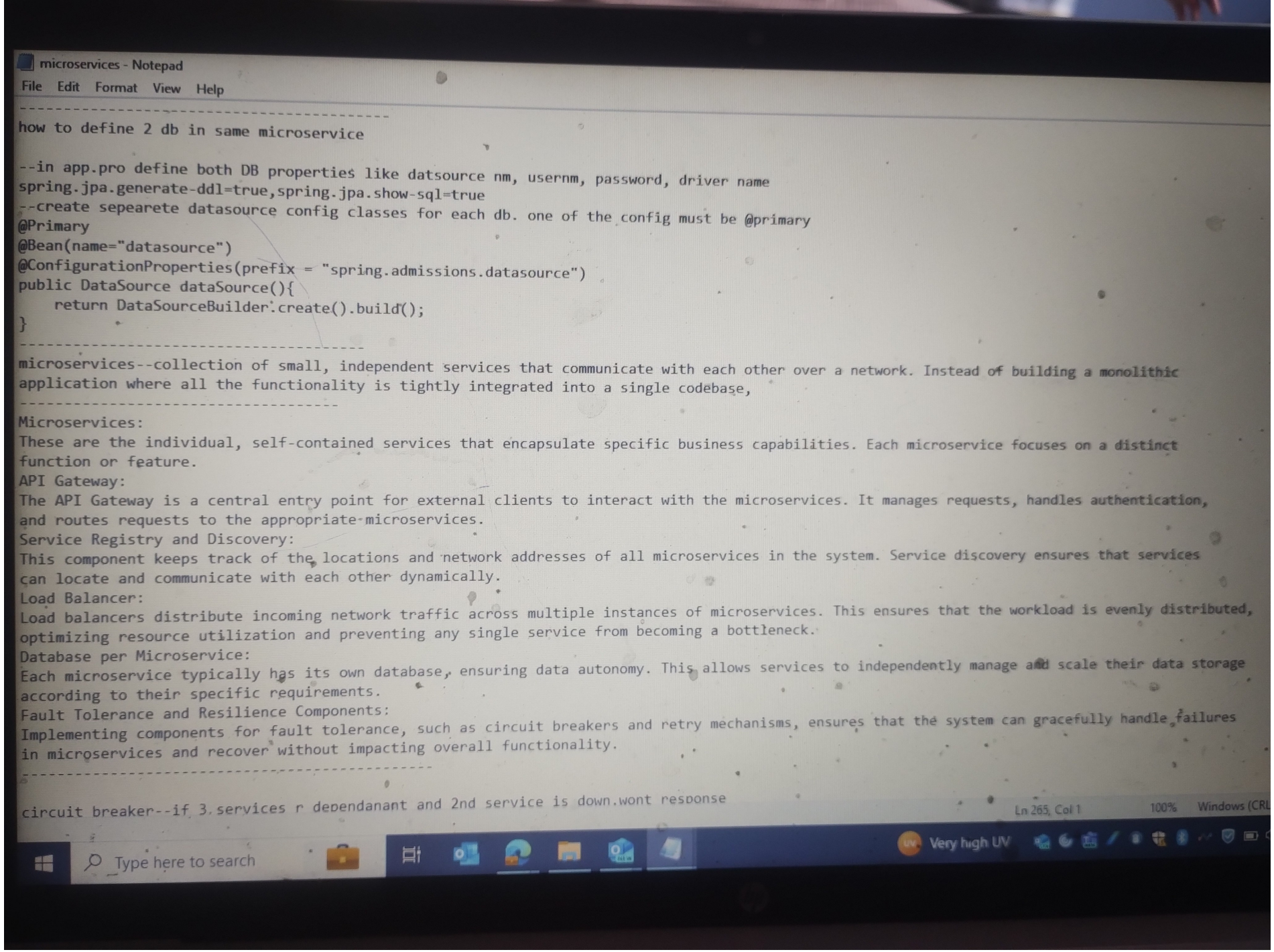

microservices - Notepad

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how to define 2 db in same microservice

--in app.pro define both DB properties like datsource nm, usernm, password, driver name
spring.jpa.generate-ddl=true,spring.jpa.show-sql=true
--create sepearete datasource config classes for each db. one of the config must be @primary

```
@Primary
@Bean(name="datasource")
@ConfigurationProperties(prefix = "spring.admissions.datasource")
public DataSource dataSource(){
    return DataSourceBuilder.create().build();
}
```

---

microservices--collection of small, independent services that communicate with each other over a network. Instead of building a monolithic application where all the functionality is tightly integrated into a single codebase,

---

Microservices:
These are the individual, self-contained services that encapsulate specific business capabilities. Each microservice focuses on a distinct function or feature.
API Gateway:
The API Gateway is a central entry point for external clients to interact with the microservices. It manages requests, handles authentication, and routes requests to the appropriate microservices.
Service Registry and Discovery:
This component keeps track of the locations and network addresses of all microservices in the system. Service discovery ensures that services can locate and communicate with each other dynamically.
Load Balancer:
Load balancers distribute incoming network traffic across multiple instances of microservices. This ensures that the workload is evenly distributed, optimizing resource utilization and preventing any single service from becoming a bottleneck.
Database per Microservice:
Each microservice typically has its own database, ensuring data autonomy. This allows services to independently manage and scale their data storage according to their specific requirements.
Fault Tolerance and Resilience Components:
Implementing components for fault tolerance, such as circuit breakers and retry mechanisms, ensures that the system can gracefully handle failures in microservices and recover without impacting overall functionality.

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circuit breaker--if 3 services r dependanant and 2nd service is down.wont response

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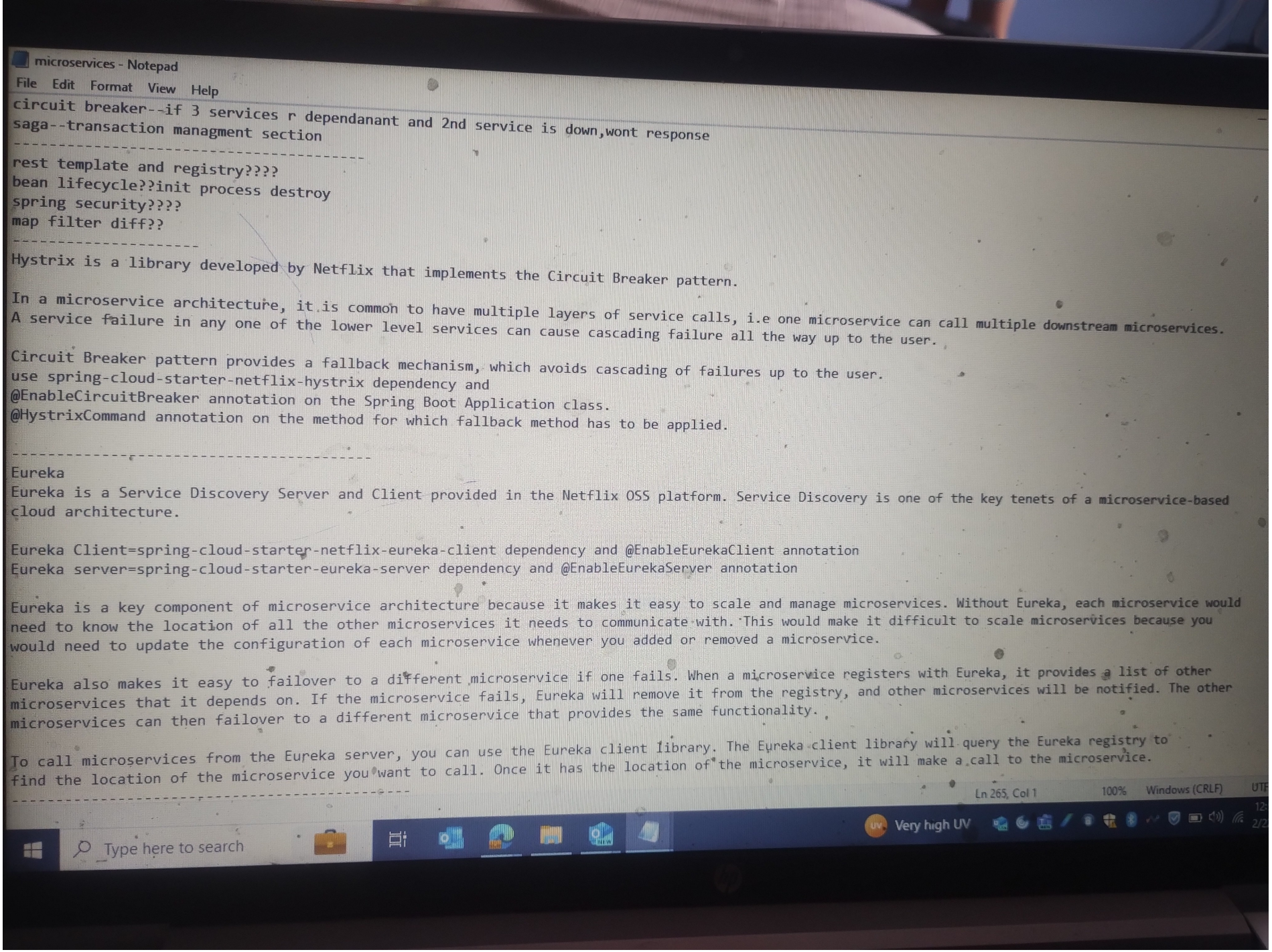

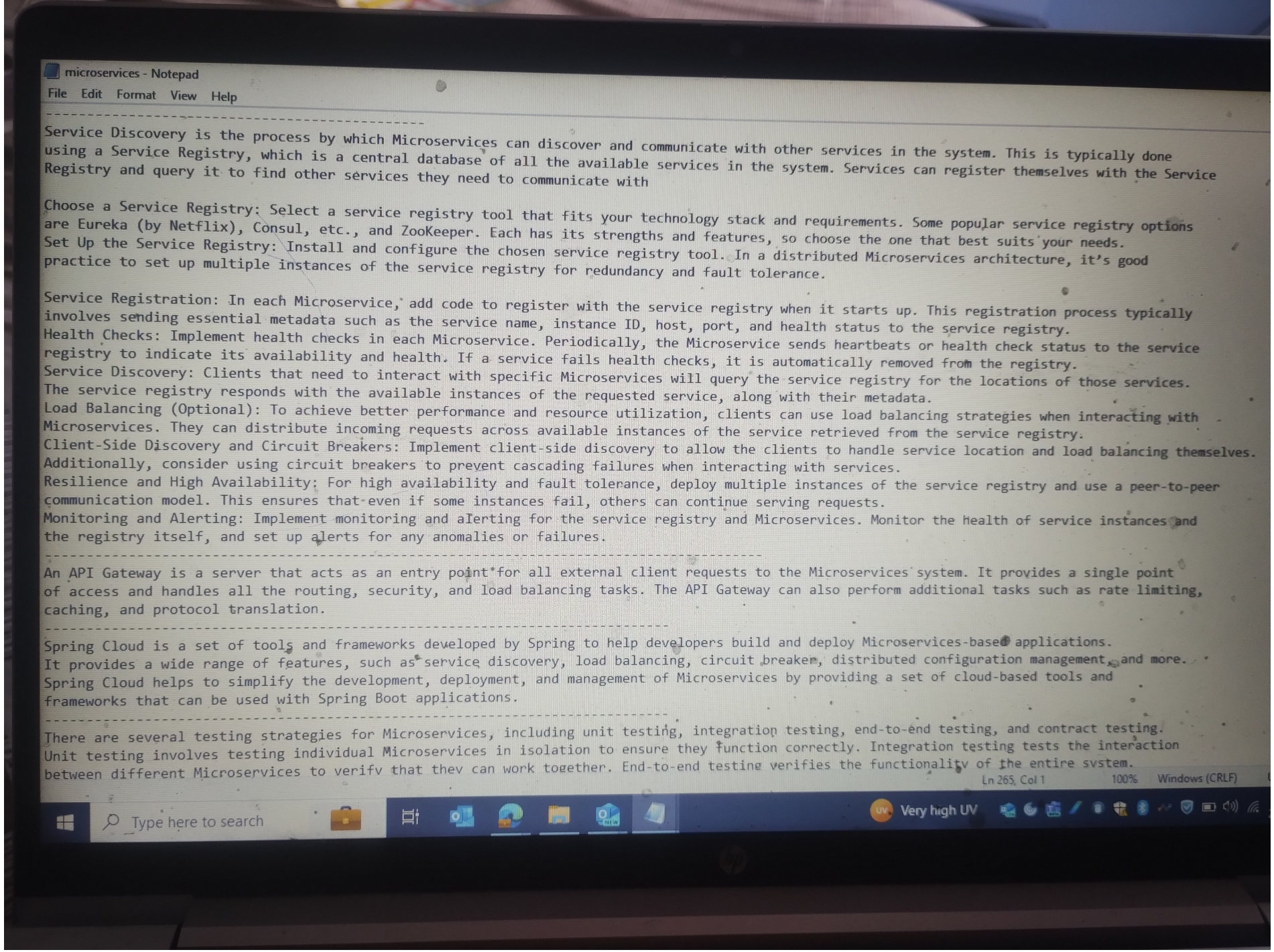

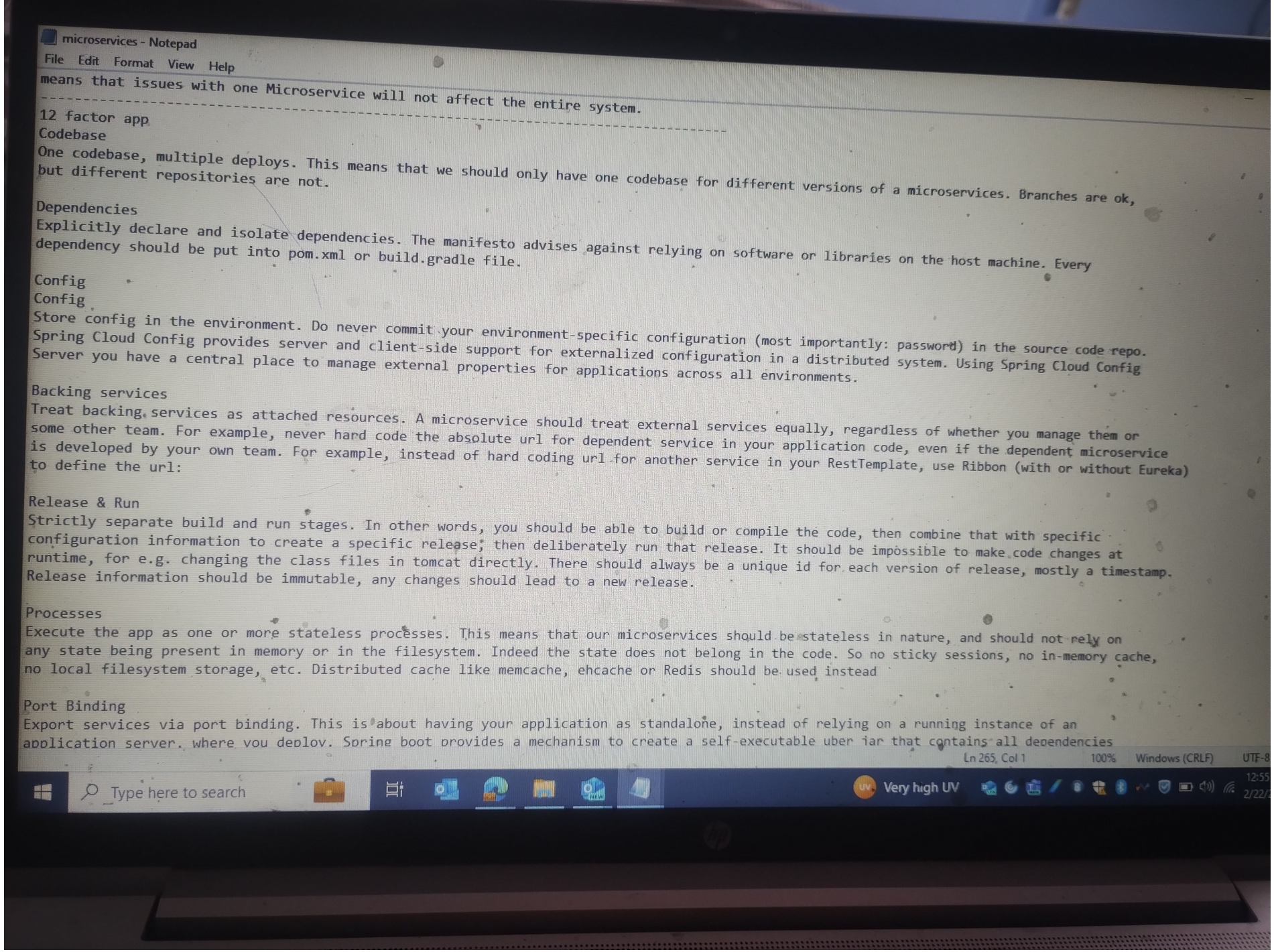

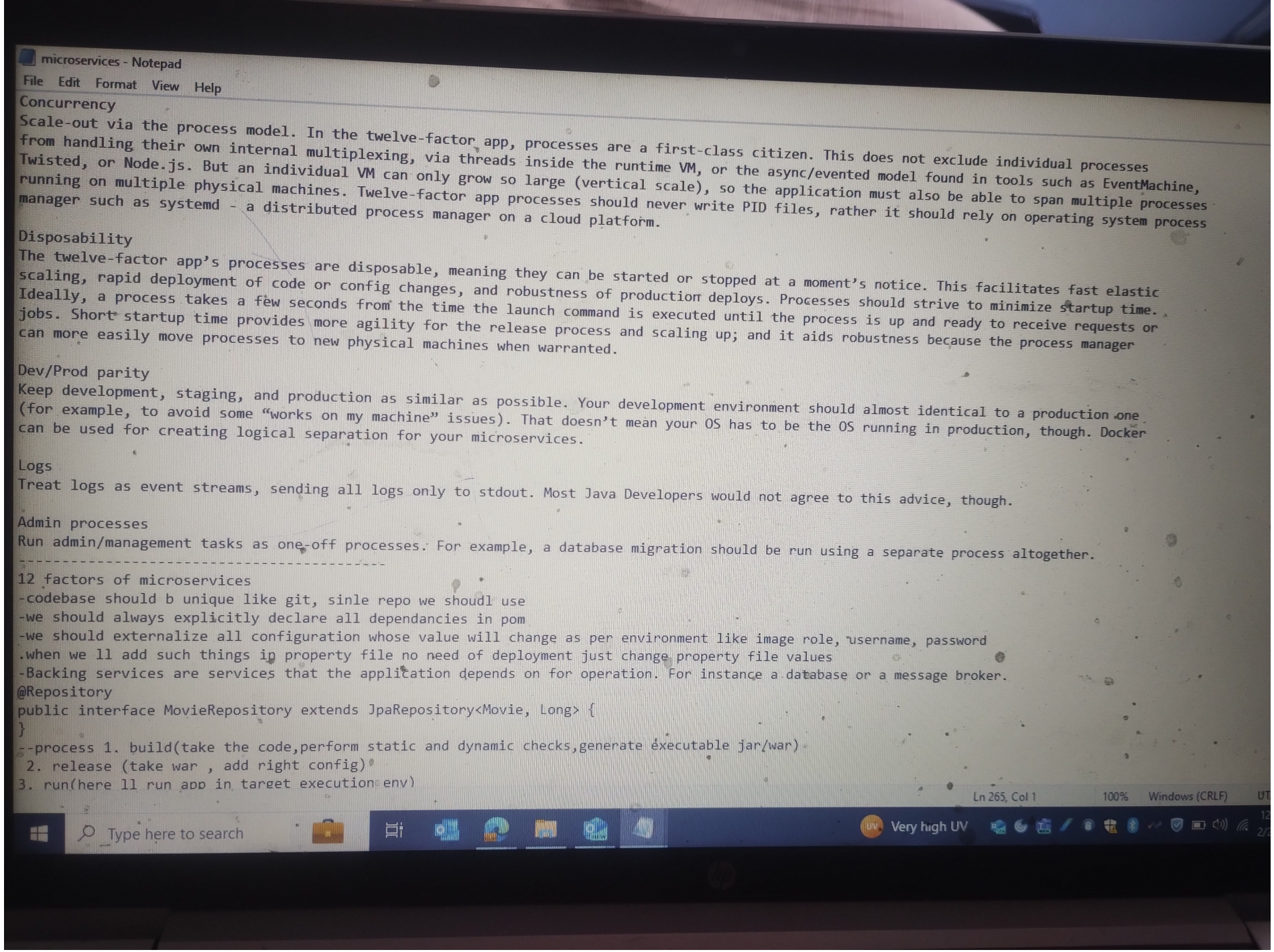

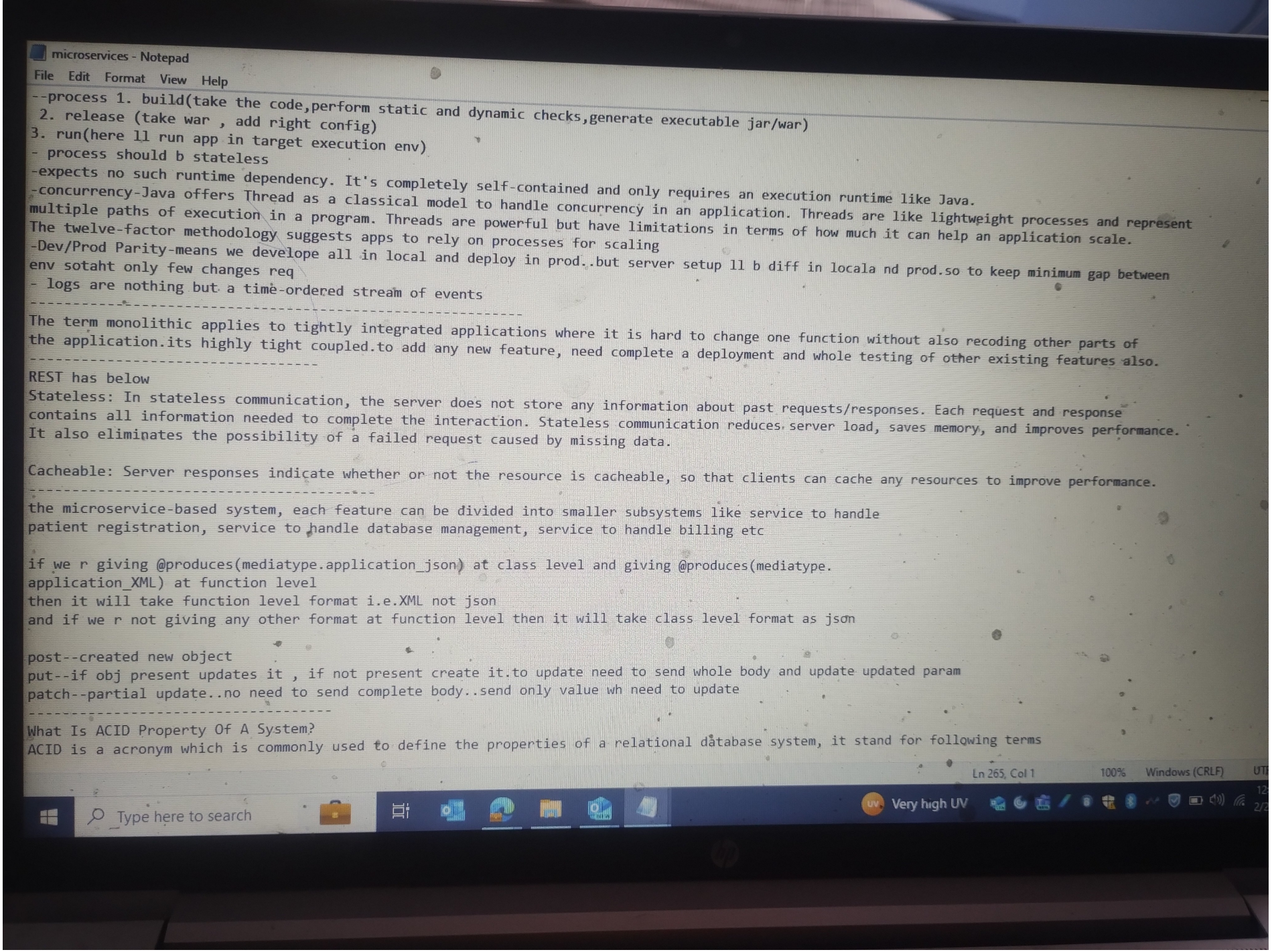

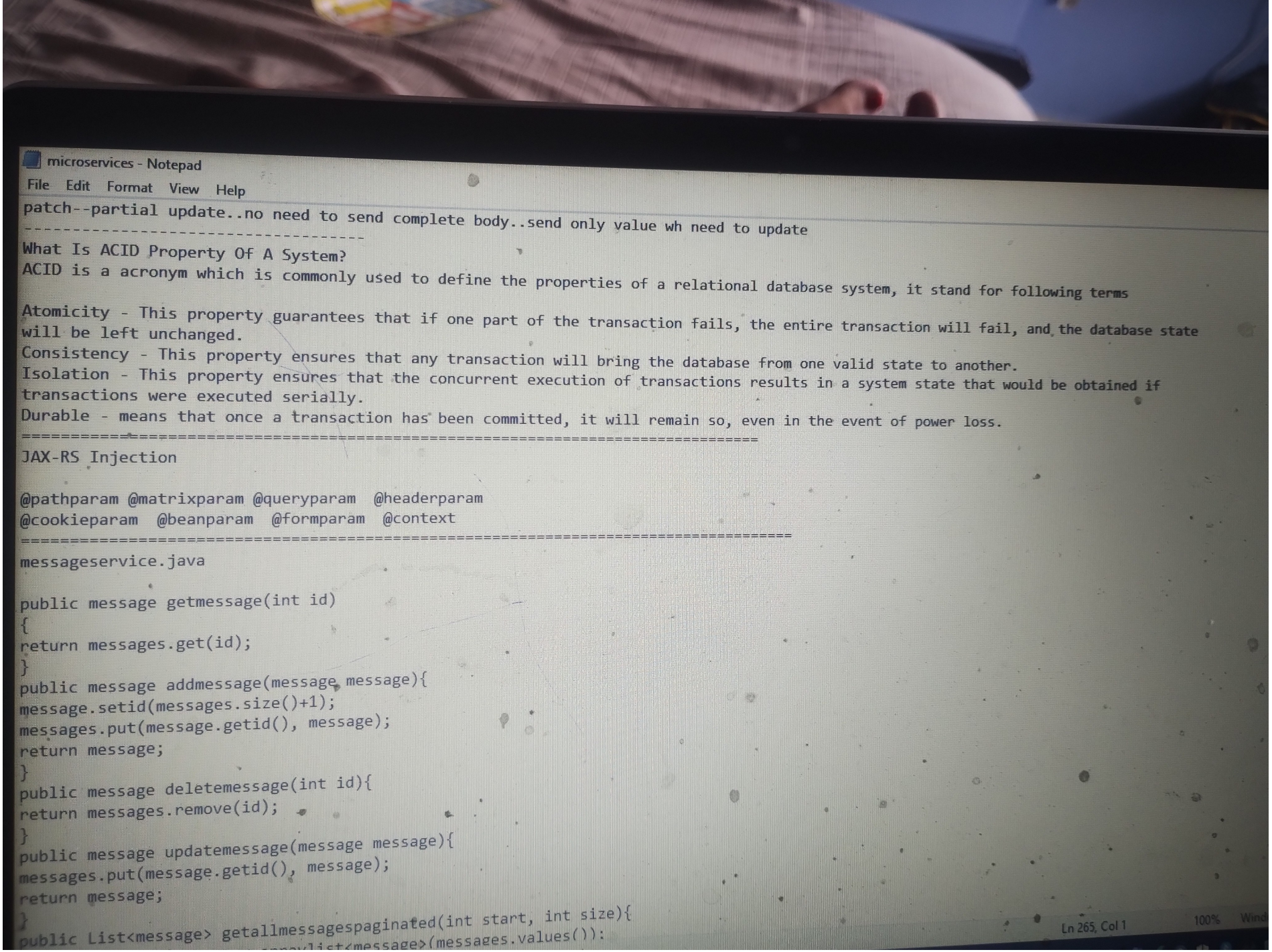

microservices - Notepad

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patch--partial update..no need to send complete body..send only value wh need to update

---

What Is ACID Property Of A System?

ACID is a acronym which is commonly used to define the properties of a relational database system, it stand for following terms

Atomicity - This property guarantees that if one part of the transaction fails, the entire transaction will fail, and the database state will be left unchanged.

Consistency - This property ensures that any transaction will bring the database from one valid state to another.

Isolation - This property ensures that the concurrent execution of transactions results in a system state that would be obtained if transactions were executed serially.

Durable - means that once a transaction has been committed, it will remain so, even in the event of power loss.

==========

JAX-RS Injection

@pathparam @matrixparam @queryparam @headerparam

@cookieparam @beanparam @formparam @context

==========

messageservice.java

```
public message getmessage(int id)
{
return messages.get(id);
}
public message addmessage(message message){
message.setid(messages.size()+1);
messages.put(message.getid(), message);
return message;
}
public message deletemessage(int id){
return messages.remove(id);
}
public message updatemessage(message message){
messages.put(message.getid(), message);
return message;
}
public List<message> getallmessagespaginated(int start, int size){
```

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