Q.1 What is an API? Give an example , where an API is used in real life.

Ans:- Application programming interface , is a set of rules and prtotocols that allows different

Software application to communicate and interact with each other.

 Example of API :-- Weather API

1. Request
2. API processing
3. Pesponse
4. Integration

API used:----Social media integration

                 Payment processing

Q.2 Give advantage and disadvantages of using API

Ans :- advantage :-

1. Interoperability
2. Efficiency
3. Scalability
4. Access to External Resources
5. Cost-Effective

Disadvantage : -

1. **Dependency**
2. **Data Privacy**
3. **Limited Control:**
4. **Costs:**
5. Versioning Challenge

Q.3 What is Web Api? Different between API and web API?

Ans:- A web Api is means we can communicate many serever to each other but Web api like

http this is also use for web application to connection

Q.4 Explain REST and SOAP Architecture . Mention shortcoming of SOAP

Ans:- REST, or Representational State Transfer, is an architectural style for designing networked applications. It is not a protocol like SOAP but rather a set of principles and constraints for building web services.

SOAP, on the other hand, is a protocol for exchanging structured information in the implementation of web services. It defines a strict set of rules for structuring messages, including a well-defined XML schema. Key characteristics of SOAP include: