**API Interview QnA**

1. **Difference between Local and Global Variable ?**

Local Variables: Local variables are declared with in the function or with in the block. The scope of local variables are within that function only.

Global Variables: Global Variables are declare globally. We access the global variables from any where.

1. **How can we create the Environment Variables?**

Left Side of the Postman tool, we find Environments, click on the Environments

Environments -> click on + icon to create new Environment ->Give Environment Name & Create variables -> click on Save

1. **Difference between the Methods Put and Patch , Post and Get ?**

Get -> Using GET method we can retrieve the Data.

Post -> Using Post method we can create new data to the server

Patch -> Patch method is used to do partial update(one or two fields) on the existing data

Put -> Put method is used to do full updation or multiple fields updation on the existind data

1. **Various Auth types and how can we use that?**
2. Cookie –Based : Secret cookie will shared by the client, using this cookie we can do modifications on Data
3. No Auth: We use No Auth, when no credentials are required to do HTTP Methods
4. Basic Auth: We need to give credentials in authorization tab (or) we can add Key & value pair in Headers Tab.

. In Basic Auth password converted into base64 Format. So everyone easily decode the password. It is not that much Secured

1. Digest Auth: It is secure than the Basic Auth. Password converted into MD5 format, which can’t retrieve back.
2. **What is JSON Schema validation with example?**

**JSON Schema Validation** is a process of verifying that a JSON response (usually from an API) matches a **predefined format or structure** — the **schema**.

It ensures that:

* Required fields are present
* Fields are of correct data types (e.g., string, number, boolean)
* Fields follow specific constraints (e.g., pattern, minLength, etc.)

This is especially useful in **API testing** to confirm that the API responses are structurally correct.