

JSON Object()

- **Enclose Objects in {}:**

JSON objects are wrapped in curly braces.({} এর ভিতরে থাকবে।)

- **Key-Value Pairs (ডাটা {} এর ভিতরে key-value pair এ থাকবে।)**

- Keys must always be **strings** (in double quotes).(key অবশ্যই string এ থাকবে।)
- Values can be a **string, number, boolean, null, another object, or an array**.

- **Use Double Quotes: .(string অবশ্যই " " এ থাকবে।)**

Strings and keys must be enclosed in **double quotes**

- **Commas Separate Pairs:**

Use commas between key-value pairs, but **no trailing comma** after the last pair.

- **Arrays in []:(array অবশ্যই [] এ থাকবে।)**

Arrays are enclosed in square brackets, and elements can be of any JSON type.

- **Valid Data Types:**

- String: "text"
- Number: 123 or 12.34
- Boolean: true or false
- Null: null
- Object: { "key": "value" }
- Array: ["item1", "item2"]

- **No Comments:**

JSON does not support comments.

- **Whitespace:**

Whitespace (spaces, tabs, newlines) is allowed and ignored.

Example JSON Object:

Here's an example of a well-formed JSON object:

```
json

{
  "name": "Utsab Roy",
  "age": 24,
  "skills": ["C", "C++", "Java", "Laravel", "HTML", "CSS"],
  "isStudent": false,
  "address": {
    "city": "Kolkata",
    "zip": "700001"
  }
}
```

JSON ENCODE:

JSON OBJECT FROM ASSOCIATIVE ARRAY(একটা associative array কে JSON Object এ নিব।)

```
<?php
    $associative_array=[ "name"=>"utsab", "age"=>20];

    //convert associative array to json object
    $json_object=json_encode($associative_array);
    echo $json_object;

?>
```

← → ↻ ⓘ localhost:3000/index.php

```
{"name":"utsab","age":20}
```

Jsonlint এ গিয়ে validate করতে পারি/চেক করতে পারি json format ঠিক আছে কিনা।

← → ↻ 🌐 jsonlint.com

To format and validate your JSON, just copy + paste it below:

```
1 {
2   "name": "utsab",
3   "age": 20
4 }
```

Validate JSON

Clear

Compress

//JSON OBJECT ARRAY

```
<?php
$phpArray = [
    [
        'id' => 1,
        'name' => 'Alice',
        'email' => 'alice@example.com',
    ],
    [
        'id' => 2,
        'name' => 'Bob',
        'email' => 'bob@example.com',
    ],
    [
        'id' => 3,
        'name' => 'Charlie',
        'email' => 'charlie@example.com',
    ],
];

$json_object_array=json_encode($phpArray,JSON_PRETTY_PRINT);
echo $json_object_array;

?>
```

```
1 ▾ [
2 ▾   {
3       "id": 1,
4       "name": "Alice",
5       "email": "alice@example.com"
6   },
7 ▾   {
8       "id": 2,
9       "name": "Bob",
10      "email": "bob@example.com"
11  },
12 ▾   {
13      "id": 3,
14      "name": "Charlie",
15      "email": "charlie@example.com"
16  }
17 ]
```

JSON Decode: JSON Object কে Associative Array তে নিবে:

Use the `json_decode()` function with the second parameter set to `true` to decode a JSON object into an associative array.

If the second parameter of `json_decode()` is set to `false` (or omitted), it will return a PHP object instead of an associative array. (TRUE না করলে PHP OBJECT পাব।)

```
<?php
// JSON object
$jsonObject = '{"name":"Utsab","role":"Assistant Computer Programmer","location":"DUET"}';

// Convert to associative array
$assocArray = json_decode($jsonObject, true);

// Output associative array
print_r($assocArray);
?>
```

← → ↻ ⓘ localhost:3000/index.php

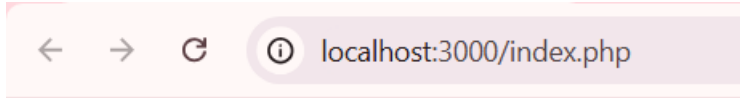
Array ([name] => Utsab [role] => Assistant Computer Programmer [location] => DUET)

GET PUT DELETE UPDATE PATCH

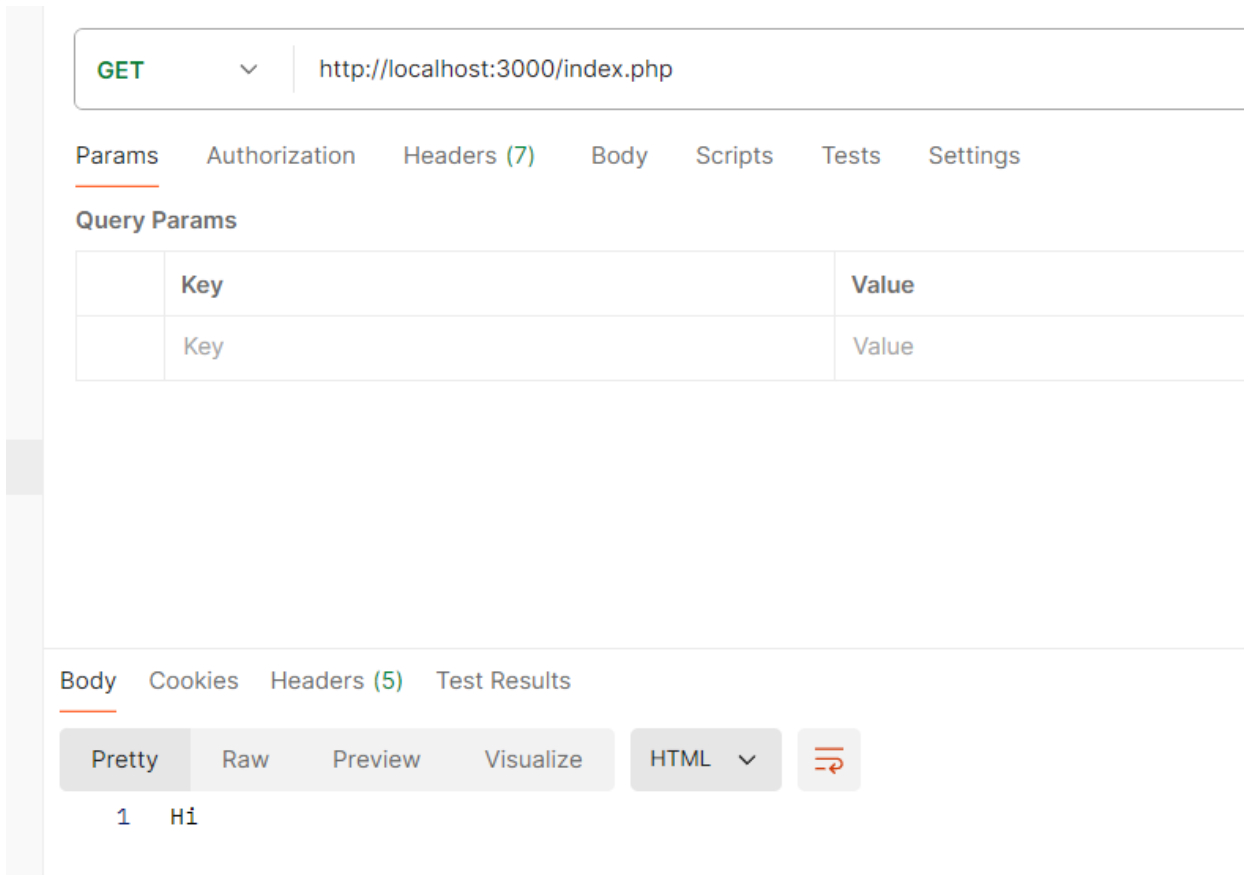
GET REQUEST :

Browsers and most tools make GET requests by default when you enter a URL into the address bar or click a link.

(মূলত আমরা url এ হিট করলে get request কল হয়।)

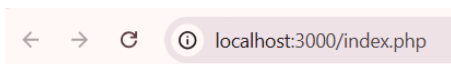


Hi



এখানে <http://localhost:3000/index.php> এ হিট করলে `$_SERVER['REQUEST_METHOD']` এ GET Request যাবে।

```
<?php
if($_SERVER['REQUEST_METHOD']=='GET'){
    echo"GET METHOD CALLED";
}
?>
```



GET METHOD CALLED

100

TEST_LARAVEL / GET_TEST

GET http://localhost:3000/index.php

Params Authorization Headers (7) Body Scripts Tests Settings

Query Params

	Key	Value
	Key	Value

Body Cookies Headers (5) Test Results

Pretty Raw Preview Visualize HTML

1 GET METHOD CALLED

PUT DELETE UPDATE PATCH:

```
<?php
    if($_SERVER['REQUEST_METHOD']=='GET'){
        echo"GET METHOD CALLED";
    }
    if($_SERVER['REQUEST_METHOD']=='POST'){
        echo "POST METHOD CALLED";
    }
    if($_SERVER['REQUEST_METHOD']=='DELETE'){
        echo "DELETE METHOD CALLED";
    }
    ?>
```

যে request দিব সেই কনডিশন TRUE হবে এবং আউটপুট দেখাবে।এখানে DELETE requests পাঠানো হয়েছে।

DELETE http://localhost:3000/index.php

Params Authorization Headers (7) Body Scripts Tests Settings

Query Params

	Key	Value
	Key	Value

Body Cookies Headers (5) Test Results

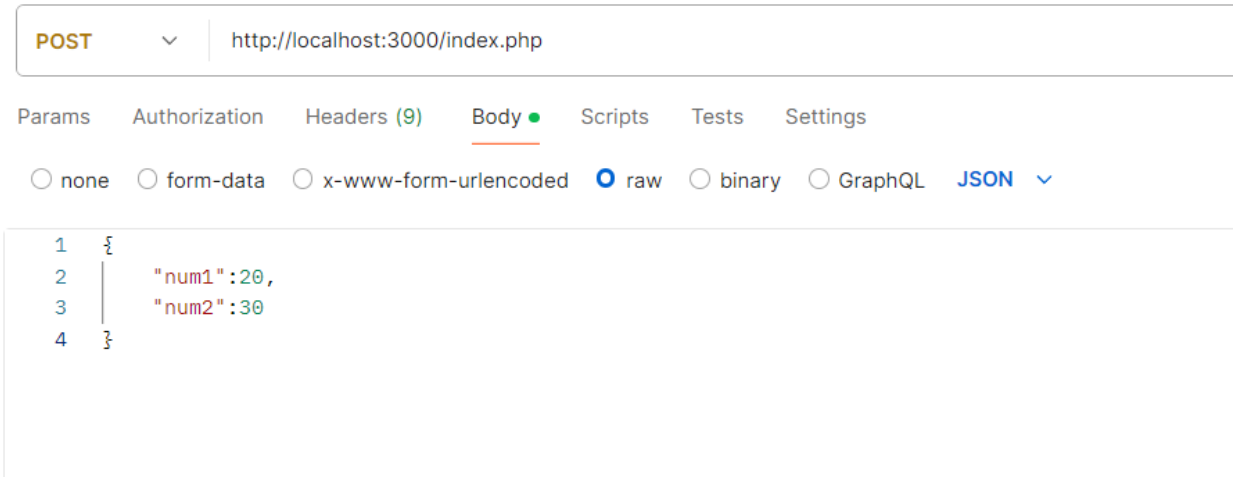
Pretty Raw Preview Visualize HTML

1 DELETE METHOD CALLED

এখানে POSTMAN কাজ করছে Front End হিসেবে (HTML এর FORM এর মাধ্যমে ডাটা পাঠাতে পারি যা POSTMAN দিয়ে করতেছি) এবং PHP কাজ করছে BackEnd হিসেবে (ডাটা প্রসেস করতেছে)।

JSON ডাটা পাঠাব SERVER এ এবং PHP সেটাকে প্রসেস করবে ও আউটপুট দেখাবে:

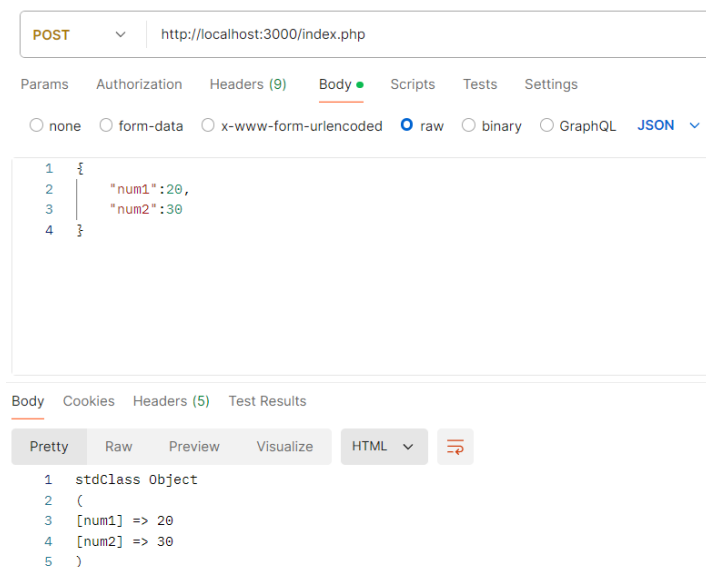
1. JSON data send using post request



2. receive the data and process the data and show the data



OUTPUT:



Another Example send json data and recive & process and print processed json data.

POST ⌵ http://localhost:3000/index.php

Params Authorization Headers (9) **Body** ● Scripts Tests Settings

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary ☐ GraphQL **JSON** ⌵

```
1 {
2   "num1":20,
3   "num2":30
4 }
```

```
<?php
if ($_SERVER['REQUEST_METHOD'] == 'POST') {
    // Read raw input data
    $rawData = file_get_contents('php://input');
    // Decode JSON data into a PHP associative array
    $show_data = json_decode($rawData,true);

    //From associative array we get those data
    $sum=$show_data['num1']+$show_data['num2'];
    $sub=$show_data['num1']-$show_data['num2'];
    $mul=$show_data['num1']*$show_data['num2'];
    $div=$show_data['num1']/$show_data['num2'];

    $associative_array=["sum"=>$sum,"sub"=>$sub,"mul"=>$mul,"div"=>$div];
    $JSON_OBJECT=json_encode($associative_array);
    echo $JSON_OBJECT;
}
?>
```


POST



http://localhost:3000/index.php

Params

Authorization

Headers (9)

Body ●

Scripts

Tests

Settings

☐ none

☐ form-data

☐ x-www-form-urlencoded

☒ raw

☐ binary

☐ GraphQL

JSON ▾

```
1  {  
2    "num1":20,  
3    "num2":30  
4  }
```

Body

Cookies

Headers (5)

Test Results

Pretty

Raw

Preview

Visualize

HTML ▾



```
1  {"sum":50,"sub":-10,"mul":600,"div":0.6666666666666666}
```