Experiment no 13

Problem Statement:

Encode and Decode JSON objects using PHP.

Input:

```php
<?php
// PHP Array
$data = array(
    "name" => "Omkar",
    "age" => 21,
    "skills" => array("PHP", "Python", "JavaScript")
);

// Encoding PHP array to JSON
$jsonData = json_encode($data);
echo "Encoded JSON: " . $jsonData;
?>
</br></br></br></br></br>;
<?php
// JSON String
$jsonString = '{"name":"Omkar","age":21,"skills":["PHP","Python","JavaScript"]}';

// Decoding JSON string to PHP associative array
$data = json_decode($jsonString, true); // Use 'true' for array output

echo "Decoded Array:\n";
print_r($data);

// Accessing specific elements
echo "Name: " . $data['name'] . "\n";
?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title></title>
    <link href="https://fonts.googleapis.com/css?family=Roboto|Sriracha&display=swap" rel="stylesheet">
    <link rel="stylesheet" href="style.css">
</head>
<style>
 *{
  margin: 20px;
  padding: 20px;
 }
</style>
<body>
```

```
</body>
</html>
```

Output:

```
Encoded JSON: {"name":"Omkar","age":21,"skills":["PHP","Python","JavaScript"]}
```

```
Decoded Array:
Array
(
    [name] => Omkar
    [age] => 21
    [skills] => Array
        (
            [0] => PHP
            [1] => Python
            [2] => JavaScript
        )
)
Name: Omkar
```