

## Lesson 01 Demo 03

### Creating Object in JavaScript

**Objective:** To use objects in JavaScript programming for food delivery application

**Tools required:** Visual Studio Code

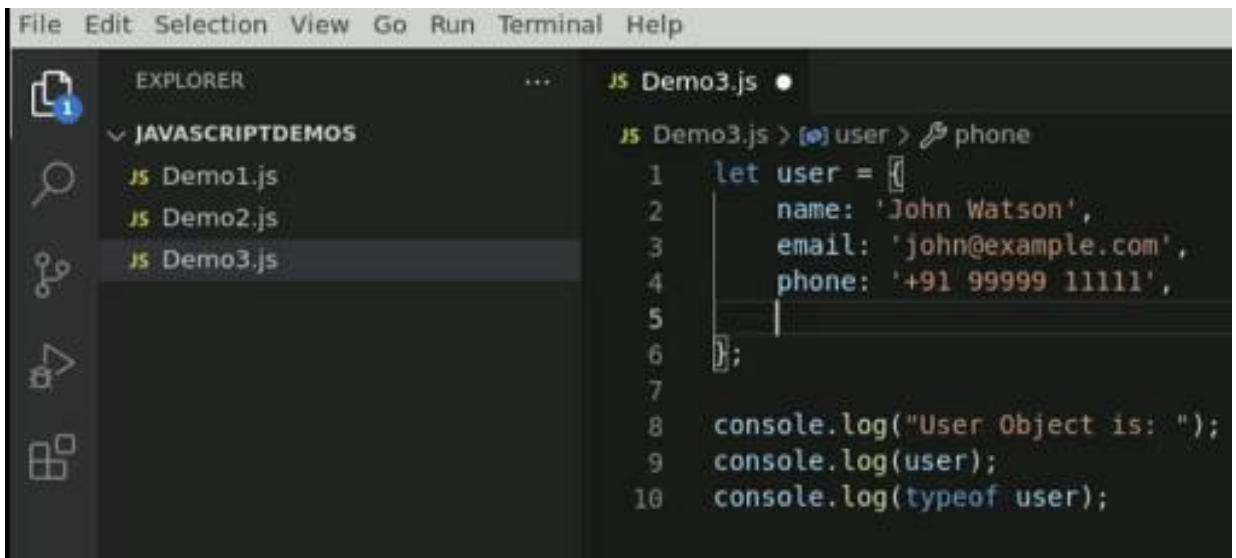
**Prerequisites:** HTML and CSS

Steps to be followed:

1. Create Demo3.js
2. Add a nested object in the user
3. Add an array in the user
4. Print values from the array
5. Create a dish object

#### Step 1: Create Demo3.js

1.1 Create **Demo3.js** file and create a **user** object in it



The screenshot shows the Visual Studio Code interface. On the left, the Explorer panel displays a folder named 'JAVASCRIPTDEMOS' containing three files: 'JS Demo1.js', 'JS Demo2.js', and 'JS Demo3.js'. The 'JS Demo3.js' file is selected. The main editor area shows the code for 'JS Demo3.js'. The code defines a 'user' object with properties 'name', 'email', and 'phone', and then logs the object and its type to the console.

```
File Edit Selection View Go Run Terminal Help

EXPLORER
JAVASCRIPTDEMOS
  JS Demo1.js
  JS Demo2.js
  JS Demo3.js

JS Demo3.js
1 let user = {
2   name: 'John Watson',
3   email: 'john@example.com',
4   phone: '+91 99999 11111',
5 }
6
7
8 console.log("User Object is: ");
9 console.log(user);
10 console.log(typeof user);
```

1.2 Open the **terminal** in this directory and use the following command to run the file:

**node Demo3.js**

```
srijanighataksi@ip-172-31-27-104:~/Documents/JavaScriptDemos$ node Demo3.js
User Object is:
{
  name: 'John Watson',
  email: 'john@example.com',
  phone: '+91 99999 11111'
}
object
srijanighataksi@ip-172-31-27-104:~/Documents/JavaScriptDemos$
```

## Step 2: Add a nested object in the user

2.1 Add a nested object **address** in the user

```
JS Demo3.js X
JS Demo3.js > ...
1 let user = {
2   name: 'John Watson',
3   email: 'john@example.com',
4   phone: '+91 99999 11111',
5   address: {
6     adrLine: '2144 Redwood Shores',
7     city: 'Bangalore',
8     pinCode: 520001
9   }
10 };
11
12 console.log("User Object is: ");
13 console.log(user);
14 console.log(typeof user);
```

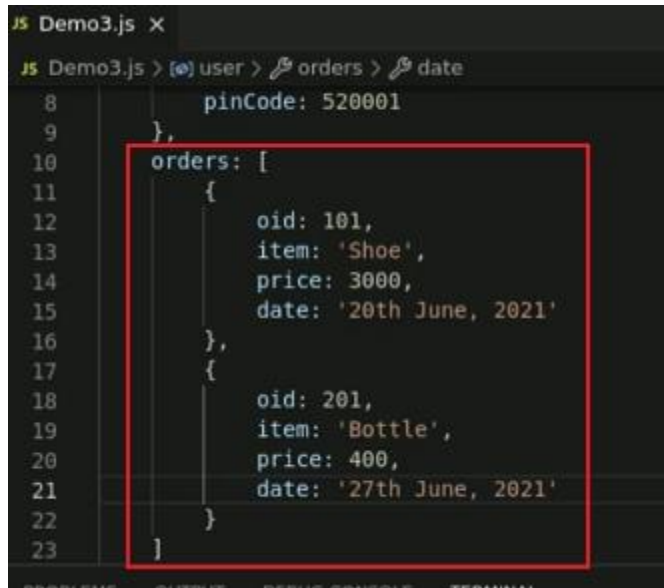
2.2 Open the **terminal** in this directory and use the following command to run the file:

**node Demo3.js**

```
srijanighataksi@ip-172-31-27-104:~/Documents/JavaScriptDemos$ node Demo3.js
User Object is:
{
  name: 'John Watson',
  email: 'john@example.com',
  phone: '+91 99999 11111',
  address: {
    adrLine: '2144 Redwood Shores',
    city: 'Bangalore',
    pinCode: 520001
  }
}
object
srijanighataksi@ip-172-31-27-104:~/Documents/JavaScriptDemos$
```

## Step 3: Add an array in the user

### 3.1 Add a nested object **address** in **user**



```
JS Demo3.js X
JS Demo3.js > [0] user > orders > date
8      pinCode: 520001
9      },
10     orders: [
11       {
12         oid: 101,
13         item: 'Shoe',
14         price: 3000,
15         date: '20th June, 2021'
16       },
17       {
18         oid: 201,
19         item: 'Bottle',
20         price: 400,
21         date: '27th June, 2021'
22       }
23     ]
```

### 3.2 Open the **terminal** in this directory and use the following command to run the file:

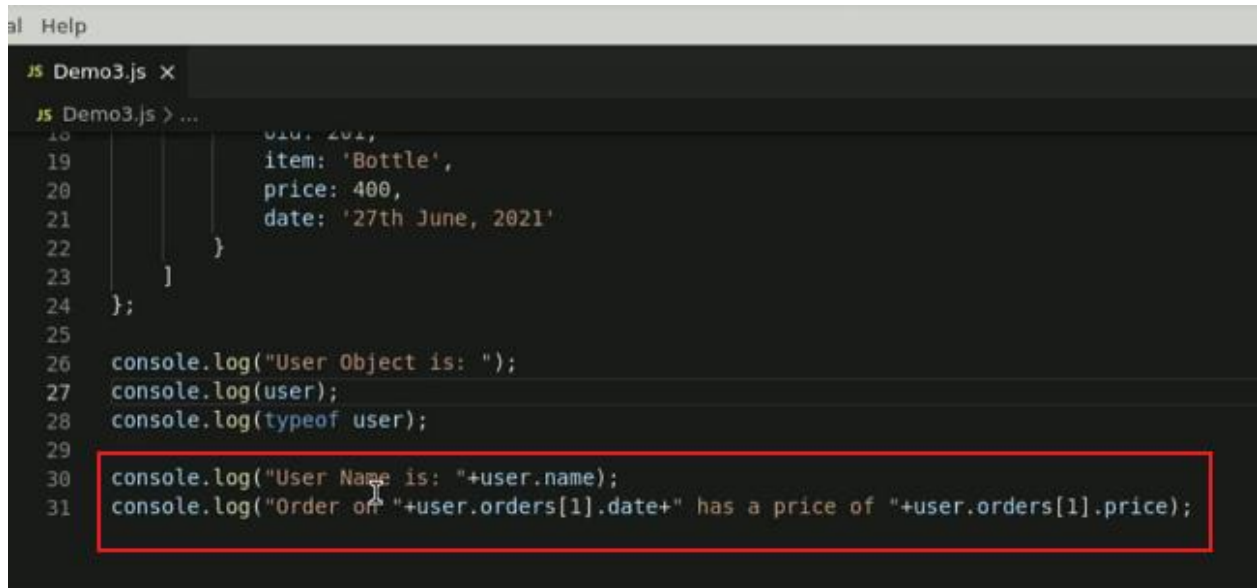
**node Demo3.js**



```
srijanighataksi@ip-172-31-27-104:~/Documents/JavaScriptDemos$ node Demo3.js
User Object is:
{
  name: 'John Watson',
  email: 'john@example.com',
  phone: '+91 99999 11111',
  address: {
    adrsLine: '2144 Redwood Shores',
    city: 'Bangalore',
    pinCode: 520001
  },
  orders: [
    { oid: 101, item: 'Shoe', price: 3000, date: '20th June, 2021' },
    { oid: 201, item: 'Bottle', price: 400, date: '27th June, 2021' }
  ]
}
object
srijanighataksi@ip-172-31-27-104:~/Documents/JavaScriptDemos$
```

## Step 4: Print values from the array

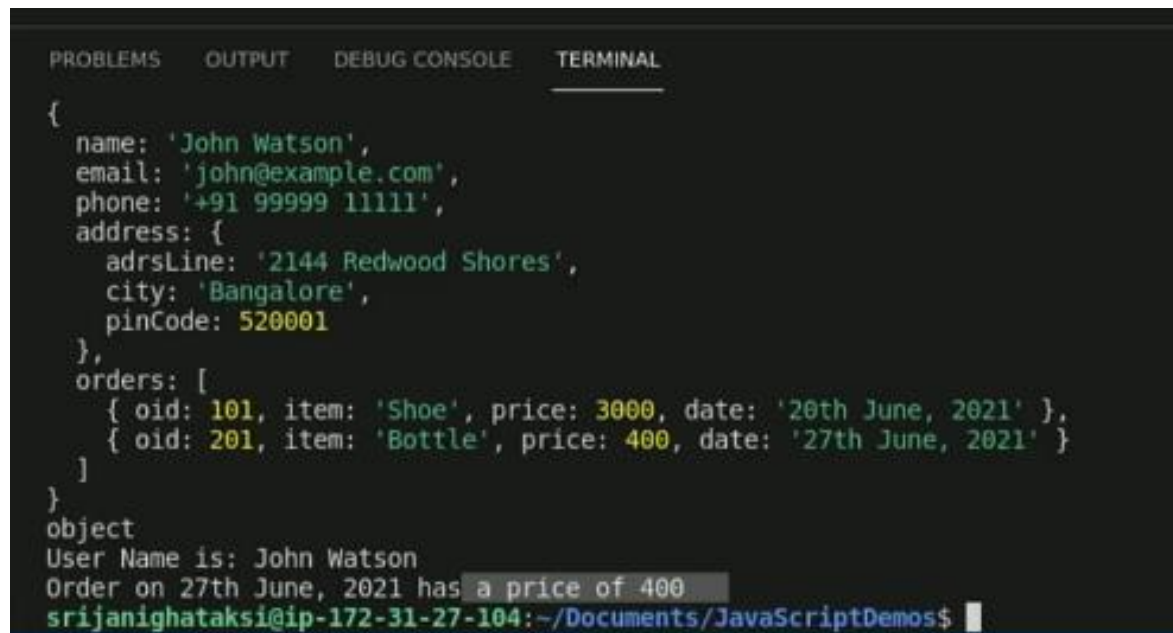
### 4.1 Write the code to print the user's name and order price



```
al Help
JS Demo3.js x
JS Demo3.js > ...
18      oid: 201,
19      item: 'Bottle',
20      price: 400,
21      date: '27th June, 2021'
22    }
23  ]
24 };
25
26 console.log("User Object is: ");
27 console.log(user);
28 console.log(typeof user);
29
30 console.log("User Name is: "+user.name);
31 console.log("Order on "+user.orders[1].date+" has a price of "+user.orders[1].price);
```

### 4.2 Open the **terminal** in this directory and use the following command to run the file:

**node Demo3.js**



```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL
{
  name: 'John Watson',
  email: 'john@example.com',
  phone: '+91 99999 11111',
  address: {
    adrsLine: '2144 Redwood Shores',
    city: 'Bangalore',
    pinCode: 520001
  },
  orders: [
    { oid: 101, item: 'Shoe', price: 3000, date: '20th June, 2021' },
    { oid: 201, item: 'Bottle', price: 400, date: '27th June, 2021' }
  ]
}
object
User Name is: John Watson
Order on 27th June, 2021 has a price of 400
srijanighataksi@ip-172-31-27-104:~/Documents/JavaScriptDemos$
```

## Step 5: Create a dish object

5.1 Write the following code to create a **dish** object:

```
JS Demo3.js X
JS Demo3.js > [e] dish2 > category
31 console.log("Order on "+user.orders[1].date+" has a price of "+user.orders[1].price);
32
33 let dish1 = {
34     dishID: 1,
35     name: 'Burger',
36     price: 200,
37     category: 'Veg'
38 }
39
40 let dish2 = {
41     dishID: 2,
42     name: 'Pizza',
43     price: 500,
44     category: 'Italian'
45 }
```

```
EXPLORER
JAVASCRIPTDEMOS
JS Demo1.js
JS Demo2.js
JS Demo3.js

JS Demo3.js X
JS Demo3.js > ...
45 }
46
47 dish1.price = 250;
48 dish2.price = 410;
49
50 console.log("Dish1 is: "+dish1);
51 console.log(dish1);
52 console.log("Dish2 is: "+dish2);
53 console.log(dish2);
```

5.2 Open the **terminal** in this directory and use the following command to run the file:

**node Demo3.js**

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
address: {
  adrsLine: '2144 Redwood Shores',
  city: 'Bangalore',
  pinCode: 520001
},
orders: [
  { oid: 101, item: 'Shoe', price: 3000, date: '20th June, 2021' },
  { oid: 201, item: 'Bottle', price: 400, date: '27th June, 2021' }
]
}
object
User Name is: John Watson
Order on 27th June, 2021 has a price of 400
Dish1 is: [object Object]
{ dishID: 1, name: 'Burger', price: 250, category: 'Veg' }
Dish2 is: [object Object]
{ dishID: 2, name: 'Pizza', price: 410, category: 'Italian' }
srijanighataksi@ip-172-31-27-104:~/Documents/JavascriptDemos$
```