

OBJECTS IN JS

JavaScript variables can also contain many values.

Objects are variables too. But objects can contain many values.

Object values are written as **name : value** pairs (name and value separated by a colon).

CREATION OF OBJECTS

```
let varshith = {  
  name: "varshith",  
  gender: "male",  
  college: "LPU",  
  cgpa: 7.55,  
};  
console.log(varshith);
```

```
[Running] node "g:\WEB JAVASCRIPT PRACTICE\3.Objects.js"  
{ name: 'varshith', gender: 'male', college: 'LPU', cgpa: 7.55 }
```

Example 1: Add Key/Value Pair to an Object Using Dot Notation

```
// program to add a key/value pair to an object

const person = {
  name: 'Monica',
  age: 22,
  gender: 'female'
}

// add a key/value pair
person.height = 5.4;

console.log(person);
```



Run Code >>

Output

```
{
  name: "Monica",
  age: 22,
  gender: "female",
  height: 5.4
}
```

In the above example, we add the new property `height` to the `person` object using the dot notation `.` i.e. `person.height = 5.4;`.

```
Objects.js 7 ...  
let varshith = {  
  name: "varshith",  
  gender: "male",  
  college: "LPU",  
  cgpa: 7.55,  
};  
varshith.height = 5.7;  
varshith.place = "vissannapeta";  
console.log(varshith);
```

```
[Running] node "g:\WEB JAVASCRIPT PRACTICE\3.Objects.js"
```

```
{  
  name: 'varshith',  
  gender: 'male',  
  college: 'LPU',  
  cgpa: 7.55,  
  height: 5.7,  
  place: 'vissannapeta'  
}
```

```
[Done] exited with code=0 in 0.143 seconds
```

Example 2: Add Key/Value Pair to an Object Using **Square Bracket** Notation

```
// program to add a key/value pair to an object
```

```
const person = {  
  name: 'Monica',  
  age: 22,  
  gender: 'female'  
}
```

```
// add a key/value pair  
person['height'] = 5.4;
```

```
console.log(person);
```

Run Code »

Output

```
{  
  name: "Monica",  
  age: 22,  
  gender: "female",  
  height: 5.4  
}
```

In the above example, we add the new property `height` to the `person` object using the square bracket notation `[]` i.e. `person['height'] = 5.4;`.

objects.js 7 ...

```
let varshith = {  
  name: "varshith",  
  gender: "male",  
  college: "LPU",  
  cgpa: 7.55,  
};  
varshith["height"] = 5.9;  
varshith["place"] = "vissannapet";  
console.log(varshith);
```

[Running] node "g:\WEB JAVASCRIPT PRACTICE\3.Objects.js"

```
{  
  name: 'varshith',  
  gender: 'male',  
  college: 'LPU',  
  cgpa: 7.55,  
  height: 5.9,  
  place: 'vissannapet'  
}
```

[Done] exited with code=0 in 0.127 seconds

Question

difference between dot notation and square bracket notation ?

---In square bracket notation we can access property dynamically

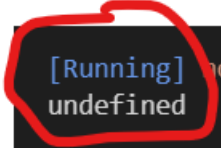
explanation

```
objects.js > ...  
let varshith = {  
  name: "varshith",  
  gender: "male",  
  college: "LPU",  
  cgpa: 7.55,  
};  
  
let studentname = "name";  
console.log(varshith[studentname]);
```

```
[Running] node "g:\WEB JAVASCRIPT PRACTICE\3.Objects.js"  
varshith  
  
[Done] exited with code=0 in 0.119 seconds
```

--in dot notation we cannot access data dynamically

```
let varshith = {  
  name: "varshith",  
  gender: "male",  
  college: "LPU",  
  cgpa: 7.55,  
};  
  
let studentname = "name";  
console.log(varshith.studentname);
```



```
[Running] node "g:\WEB JAVASCRIPT PRACTICE\3.Objects.js"  
undefined
```

```
[Done] exited with code=0 in 0.156 seconds
```