

INTERVIEW QUESTIONS

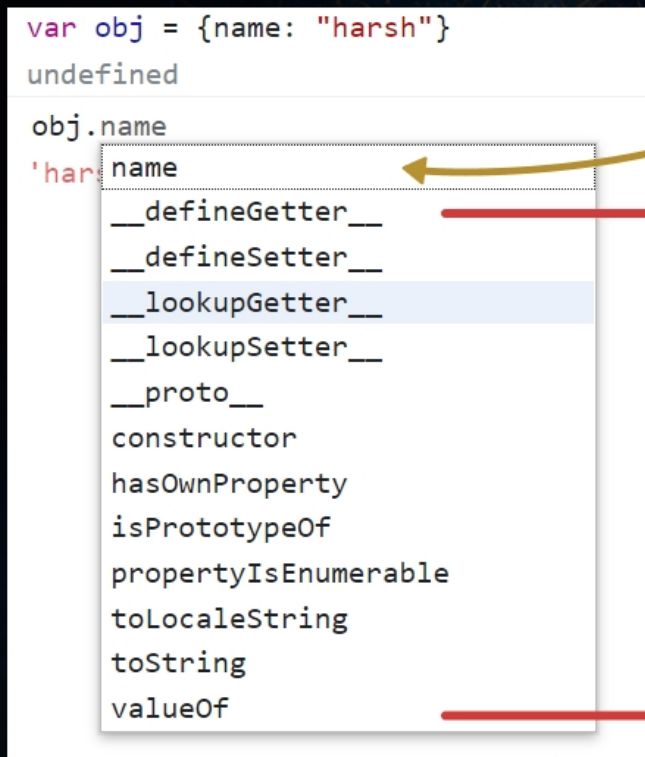
UNDERSTANDING PROTOTYPE.

Go To Browser Console And Create An Object :

```
var obj = {  
  name: "Harsh"  
}
```

& Now Type Object Name Followed With A Dot Operator :

`obj.`



we created name

but we didn't
created these

so, if we didn't created these properties where do they come from, that's where the concept of prototype comes in, every created object gets a property called prototype, which means whenever you create an object it gets prototype property automatically

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UNDERSTANDING PROTOTYPE.

```
> var obj = {name: "harsh"}  
< undefined
```

we just created obj
with name

but when we check it on console what does it contains

```
> obj  
< ▼ {name: 'harsh'} ⓘ  
    name: "harsh"  
    ► [[Prototype]]: Object
```

we didn't created
[[prototype]]

it contains an extra property called [[prototype]]
so where does it come from and what does it
contains.

WHERE IT CAME FROM ?

javascript by default adds a property called
[[prototype]] to every object, so if you ever see
any object, you can blindly say that object
contains prototype, so now, what does it contains ?

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WHAT DOES IT CONTAINS ?

`[[prototype]]` contains many helper properties and methods which we can use to complete our task, let's say we create an array and we want to know length of it, what do we do, we use `.length` property on array, did we created `.length` on that array, no! but it still contains `.length`, the question is how ?

the answer is, many properties and methods are already available to use built by javascript creators inside prototype of every object.

INTERVIEW QUESTIONS

UNDERSTANDING PROTOTYPAL INHERITANCE

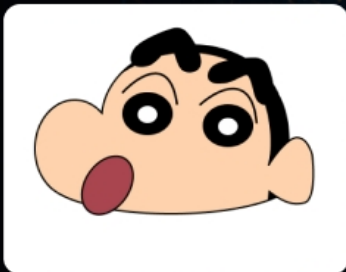


that's shinchan ke papa

he's human

he got a last name

he got round eyebrows



that's shinchan

because shinchan is his papa's son, he inherits
or we can say contains properties of his papa,
example, shinchan is also human, he also has
same last name, and he also gets round eyebrows.

THIS IS CALLED INHERITANCE.

BUT, WHAT ABOUT PROTOTYPAL INHERITANCE ?

that's exactly what we're going to talk about now,
inheritance is basically passing parent's features or
properties to their childrens, to do the same thing in
javascript with the help of prototype (one extra property
always given by javascript to every object) is called
prototypal inheritance.

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UNDERSTANDING PROTOTYPAL INHERITANCE

SO, HOW WE PERFORM PROTOTYPAL INHERITANCE ?

make an object called human and put properties like, canFly, canTalk, willDie

```
var Human = {  
  name: "Harsh",  
  canFly: false,  
  canTalk: true,  
  willDie: true  
}
```

make another object called sheryians student, he can do all things which a human can do but he can do few more things like, he can solve js questions and create modern websites, so we create extra two props which normal humans can't do in that object and rest properties we will inherit from human.

```
var SheryiansStudent = {  
  solveJsQuestion: true,  
  createModernWebsite: true  
}
```

this line does the magic

```
SheryiansStudent.__proto__ = Human;
```

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UNDERSTANDING PROTOTYPAL INHERITANCE

```
SheryiansStudent.__proto__ = Human;
```

this line adds all the properties of human in our sheryians students object, so now sheryians student has his properties and it also contains properties of human object, so it inherits properties from parent object Human.