

The modern mode, “use strict”, Variables

1. The modern mode, “use strict”:

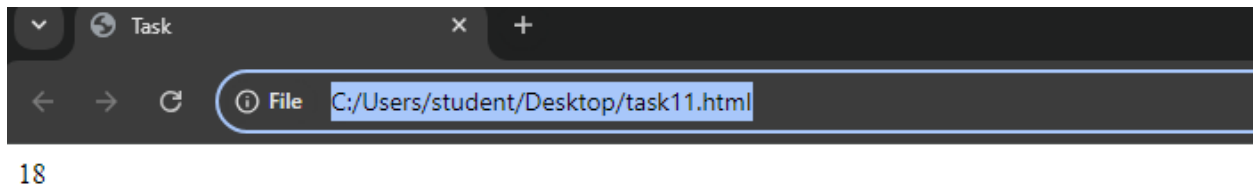
Task 11

Write a script without using “use strict” and try to assign a value to an undeclared variable. Note the result.

CODE:

```
<html>
  <head>
    <title>Task</title>
  </head>
  <body>
    <script>
      var age = 18;
      document.writeln(age);
    </script>
  </body>
</html>
```

OUTPUT:



Task 12

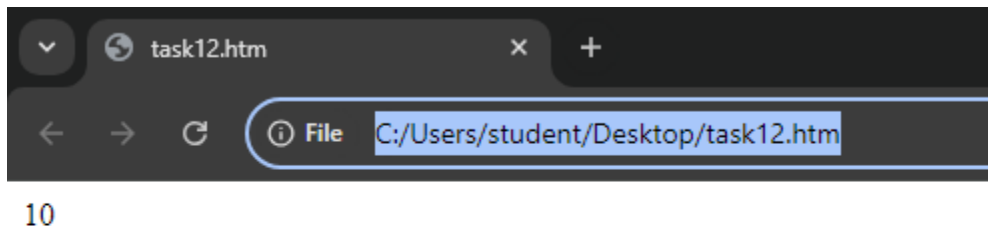
Enable “use strict” mode and repeat the above action, noting the difference.

CODE:

```
<html>
  <script>
    "use strict";
```

```
function testStrict() {  
    var x = 10;  
    document.writeln(x);  
}  
testStrict();  
</script>  
</html>
```

OUTPUT:



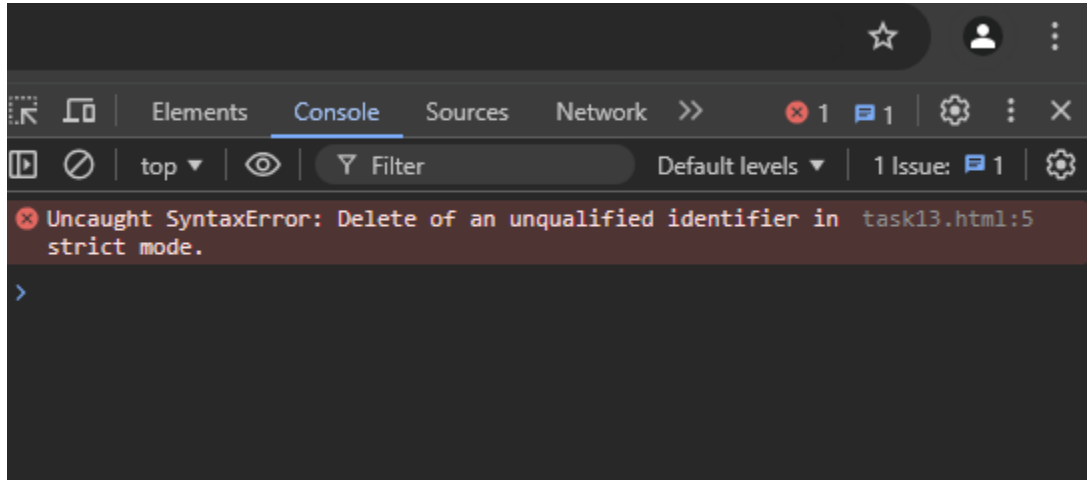
Task 13

In “use strict” mode, try to delete a variable, function, or function parameter.

CODE:

```
<html>  
  <script>  
    "use strict";  
    var x = 10;  
    delete x;  
    function myFunction() {  
      return "Hello!";  
    }  
    delete myFunction;  
    function test(a) {  
      delete a;  
    }  
    test(5);  
  </script>  
</html>
```

OUTPUT:

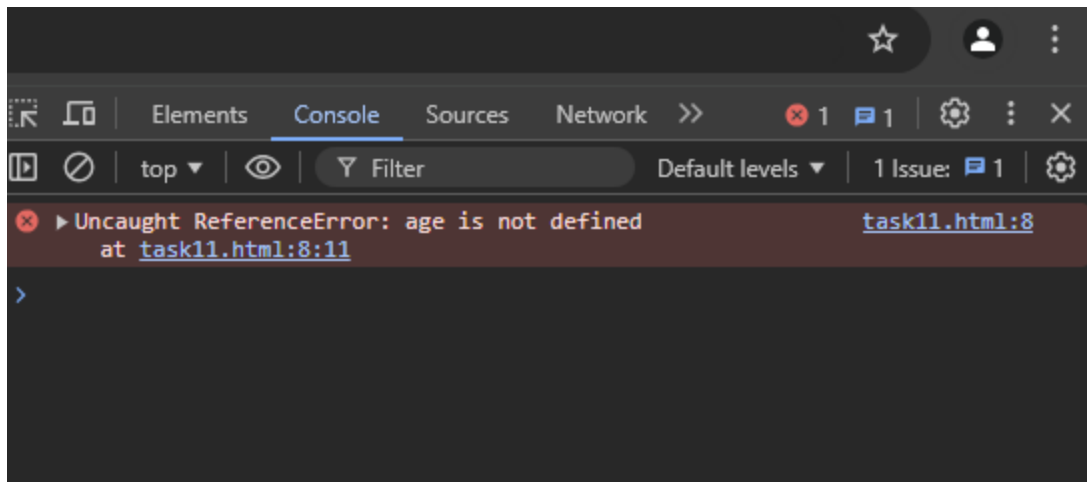


Task 14: Assign a value to an undeclared variable without “use strict” and then with “use strict”.

CODE:

```
<html>
  <head>
    <title>Task</title>
  </head>
  <body>
    <script>
      "use strict";
      age = 18;
      document.writeln(age);
    </script>
  </body>
</html>
```

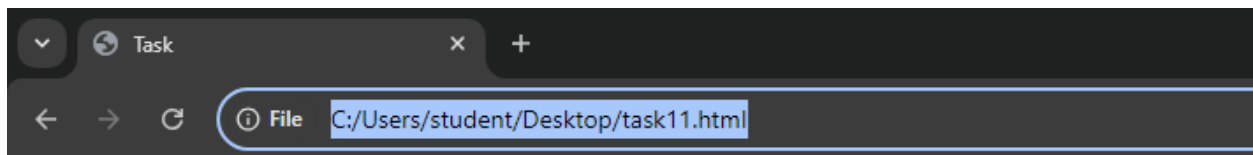
OUTPUT:



CODE:

```
<html>
  <head>
    <title>Task</title>
  </head>
  <body>
    <script>
      age = 18;
      document.writeln(age);
    </script>
  </body>
</html>
```

OUTPUT:

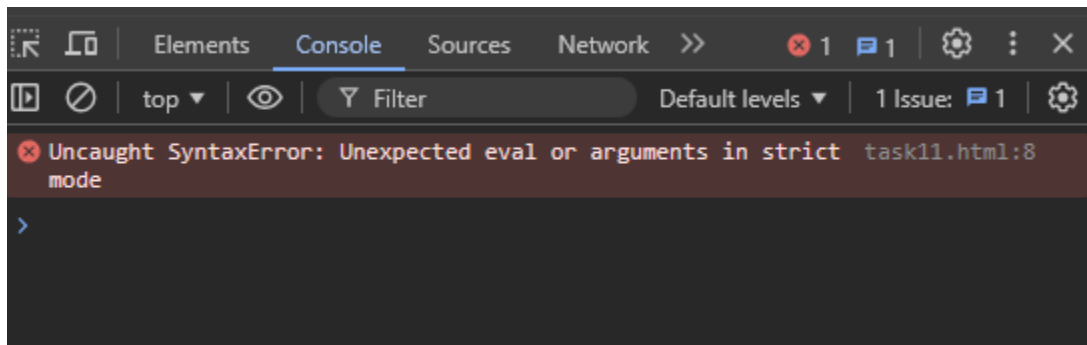


Task 15: Declare a variable with a reserved keyword in “use strict” mode.

CODE:

```
<html>
  <head>
    <title>Task</title>
  </head>
  <body>
    <script>
      "use strict";
      var arguments = 5;
      console.log(arguments);
    </script>
  </body>
</html>
```

OUTPUT:



2. Variables:

Task 16

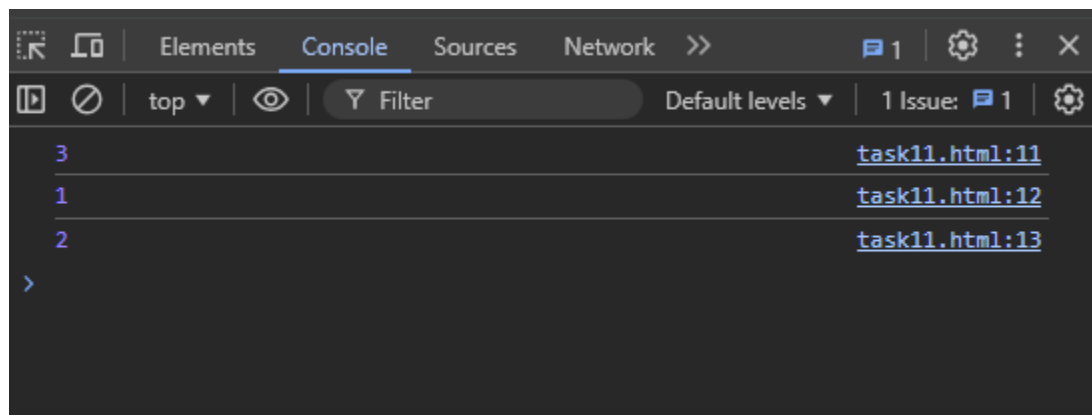
Declare variables using let, const, and var. Discuss when each should be used.

CODE:

```
<html>
  <head>
    <title>Task</title>
  </head>
  <body>
    <script>
```

```
    let x = 1;
    if (true) {
      const y = 2;
      var z = 3;
      console.log(z);
      console.log(x);
      console.log(y);
    }
  </script>
</body>
</html>
```

OUTPUT:



Task 17

Attempt to reassign a const variable and observe the result.

CODE:

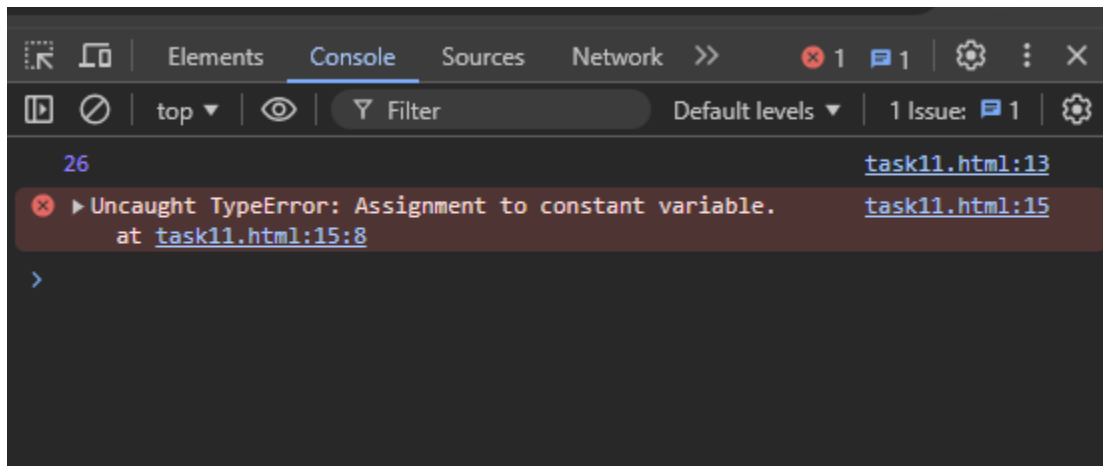
```
<html>
  <head>
    <title>Task</title>
  </head>
  <body>
    <script>
      const person = {
        name: 'Alice',
        age: 25
      };
      person.age = 26;
```

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

person = { name: 'Bob', age: 30 };

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

OUTPUT:



Task 18

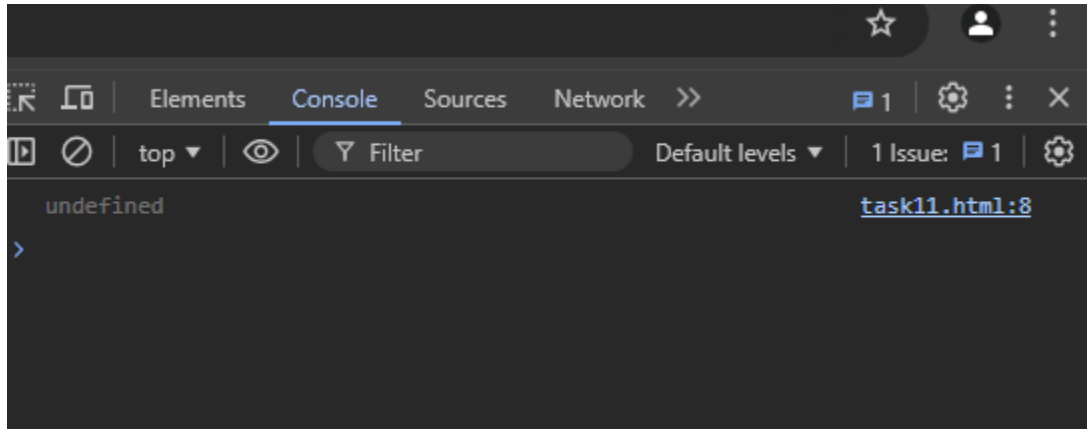
Declare a variable without initializing it and print its value.

CODE:

```
<html>
  <head>
    <title>Task</title>
  </head>
  <body>
    <script>
      let a;
      console.log(a);

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

OUTPUT:



Task 19

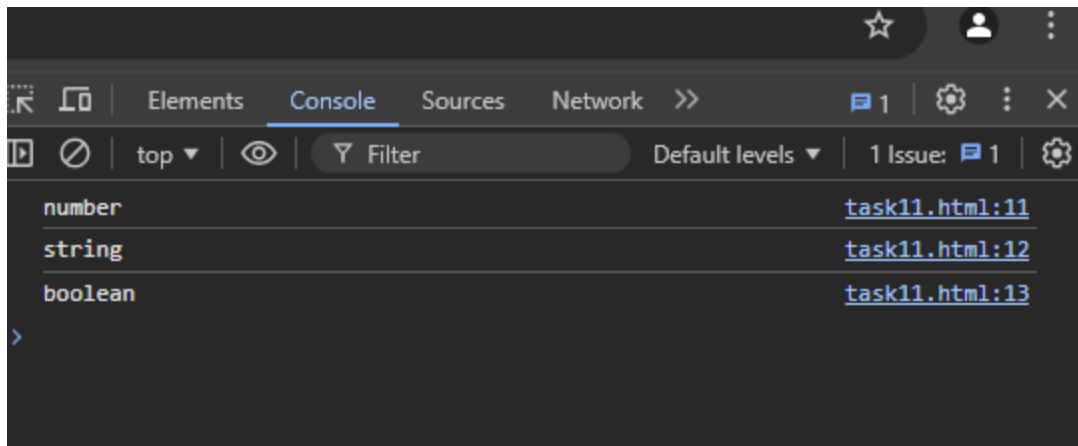
Assign a number, string, and boolean value to a variable and print its type using `typeof`.

CODE:

```
<html>
  <head>
    <title>Task</title>
  </head>
  <body>
    <script>

let a = 18;
let b= "Hello, World!";
let c = true;
console.log(typeof a);
console.log(typeof b);
console.log(typeof c);
    </script>
  </body>
</html>
```

OUTPUT:



Task 20

Rename a variable and observe the outcome.

CODE:

```
<html>
  <head>
    <title>Task</title>
  </head>
  <body>
    <script>
      let a= 10;
console.log(a);
let b = a;
console.log(b);
    </script>
  </body>
</html>
```

OUTPUT:

