



UNIVERSITETET I BERGEN

KANDIDAT

173

PRØVE

INFO134 0 Klientprogrammering

| | |
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Section 1

| Oppgave | Tittel | Oppgavetype |
|---------|--------|-------------|
| 1.1 | 1.1 | Flervalg |
| 1.2 | 1.2 | Flervalg |
| 1.3 | 1.3 | Flervalg |
| 1.4 | 1.4 | Flervalg |
| 1.5 | 1.5 | Paring |
| 1.6 | 1.6 | Paring |
| 1.7 | 1.7 | Flervalg |
| 1.8 | 1.8 | Flervalg |
| 1.9 | 1.9 | Flervalg |
| 1.10 | 1.10 | Flervalg |
| 1.11 | 1.11 | Flervalg |
| 1.12 | 1.12 | Flervalg |
| 1.13 | 1.13 | Flervalg |
| 1.14 | 1.14 | Flervalg |
| 1.15 | 1.15 | Flervalg |
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| 1.17 | 1.17 | Flervalg |
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| 1.19 | 1.19 | Flervalg |
| 1.20 | 1.20 | Flervalg |
| 1.21 | 1.21 | Flervalg |
| 1.22 | 1.22 | Flervalg |

| | | |
|------|------|----------|
| 1.23 | 1.23 | Flervalg |
| 1.24 | 1.24 | Flervalg |
| 1.25 | 1.25 | Flervalg |
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| 1.27 | 1.27 | Flervalg |
| 1.28 | 1.28 | Flervalg |
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| 1.30 | 1.30 | Flervalg |
| 1.31 | 1.31 | Flervalg |
| 1.32 | 1.32 | Flervalg |

Section 2

| Oppgave | Tittel | Oppgavetype |
|---------|--------|-----------------------|
| 2.1 | 2.1 | Fyll inn tekst |
| 2.2 | 2.2 | Fyll inn tekst |
| 2.3 | 2.3 | Flervalg |
| 2.4 | 2.4 | Paring |
| 2.5 | 2.5 | Paring |
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| 2.7 | 2.7 | Paring |
| 2.8 | 2.8 | Flervalg (flere svar) |

Section 3

| Oppgave | Tittel | Oppgavetype |
|---------|--------|---------------|
| 3.1 | 3.1 | Nedtrekk |
| 3.2 | 3.2 | Programmering |
| 3.3 | 3.3 | Programmering |

1.1 1.1

HTML stand for:
Select one alternative:

- ☐ Home Tool Markup Language
- ☐ Hyperlinks and Text Markup Language
- ☒ Hyper Text Markup Language

1.2 1.2

What does CSS stand for?
Select one alternative:

- ☐ Creative Style Sheets
- ☒ Cascading Style Sheets
- ☐ Computer Style Sheets
- ☐ Colorful Style Sheets

1.3 1.3

Which of the following is the correct HTML element for the largest heading?
Select one alternative:

- ☐ <h5>
- ☒ <h1>
- ☐ <heading>
- ☐ <head>

1.4

1.4

Which of the following is the correct HTML for adding a background color?
Select one alternative:

- ☒ <body style="background-color:blue;">
- ☐ <body bg="blue">
- ☐ <background>blue</background>

1.5

1.5

Match every HTML tag to its correct option:

Please match the ones that fit together

| | JS comment | Document title | Numbered list | HTML comment | Line break | Bulleted list |
|-------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| <!-- --> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> |
| | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> |
| | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| <title> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| /*comment*/ | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

1.6

1.6

Choose the correct option for each question below:
Please match the ones that fit together

| | True | False |
|---|----------------------------------|----------------------------------|
| The external JavaScript file must contain the <script> tag. | <input type="radio"/> | <input checked="" type="radio"/> |
| In HTML, onblur and onfocus are event attributes. | <input checked="" type="radio"/> | <input type="radio"/> |
| JavaScript is the same as Java. | <input type="radio"/> | <input checked="" type="radio"/> |
| "==" operator is used to assign a value to a variable | <input type="radio"/> | <input checked="" type="radio"/> |

1.7

What is the correct HTML for referring to an external style sheet?

Select one alternative:

- ☐ <style src="mystyle.css">
- ☐ <script > rel="mystyle.css" </script>
- ☒ <link rel="stylesheet" type="text/css" href="mystyle.css">
- ☐ <stylesheet> mstyle.css </stylesheet>

1.8

Where in an HTML document is the correct place to refer to an external style sheet?

Select one alternative:

- ☒ In the section
- ☐ In the section
- ☐ At the end of the document

1.9

Which is the correct CSS syntax?

Select one alternative:

- ☐ {body;color:black;}
- ☐ {body:color=blac;}
- ☐ body:color=black;
- ☒ body {color: black;}

1.10 1.10

Which property is used to change the background color?
Select one alternative:

- ☐ bgcolor
- ☐ color
- ☒ background-color
- ☐ bg-color

1.11 1.11

How do you add a background color for all <h2> elements?
Select one alternative:

- ☐ {h2: background-color:#FFFFFF;}
- ☒ h2 {background-color:#FFFFFF;}
- ☐ all.h2 {background-color:#FFFFFF;}
- ☐ h2.all {background-color:#FFFFFF;}

1.12 1.12

How do you select elements with class name 'info'?
Select one alternative:

- ☒ .info
- ☐ #info
- ☐ info
- ☐ *info

1.13 1.13

How do you select all p elements inside a div element?
Select one alternative:

- ☐ div p
- ☐ div + p
- ☐ div. all p
- ☒ div.p

1.14 1.14

How do you select an element with id 'test'?
Select one alternative:

- ☐ .test
- ☐ test
- ☒ #test
- ☐ *test

1.15 1.15

Choose the correct HTML element to define important text
Select one alternative:

- ☐
- ☒
- ☐ <important>
- ☐ <i>

1.16

What is the correct HTML for creating a hyperlink?

Select one alternative:

- ☐ `<a>https://www.uib.no/`
- ☒ `UiB`
- ☐ `UiB`
- ☐ `UiB`

1.17

What is the correct HTML for making a text input field?

Select one alternative:

- ☐ `<textinput type="text">`
- ☐ `<textfield>`
- ☐ `<input type="textfield">`
- ☒ `<input type="text">`

1.18

Inside which HTML element do we put the JavaScript?

Select one alternative:

- ☐ `<javascript>`
- ☒ `<script>`
- ☐ `<js>`
- ☐ `<scripting>`

1.19

1.19

Which HTML attribute is used to define inline styles?
Select one alternative:

☒ style

☐ styles

☐ class

☐ font

1.20

1.20

Which CSS property is used to change the text color of an element?
Select one alternative:

☐ fgcolor

☒ text-color

☐ textcolor

☐ color

1.21

1.21

What is the default value of the position property?
Select one alternative:

☐ fixed

☐ absolute

☒ static

☐ relative

1.22 **1.22**

What is the correct JavaScript syntax to change the content of the HTML element below?

```
<p id="demo">This is a demonstration.</p>
```

Select one alternative:

- ☐ document.getElementByName("p").innerHTML = "Hello World!";
- ☒ document.getElementById("demo").innerHTML = "Hello World!";
- ☐ #demo.innerHTML = "Hello World!";
- ☐ document.getElement("p").innerHTML = "Hello World!";

1.23 **1.23**

Where is the correct place to insert a JavaScript?

Select one alternative:

- ☐ The section
- ☐ The section
- ☒ Both the section and the section are correct

1.24 **1.24**

What is the correct syntax for referring to an external script called "exam.js"?

Select one alternative:

- ☒ <script src="exam.js">
- ☐ <script href="exam.js">
- ☐ <script name="exam.js">

1.25 **1.25**

How do you write "Hello World" in an alert box?
Select one alternative:

- ☒ alert("Hello World");
- ☐ alertBox("Hello World");
- ☐ msgBox("Hello World");
- ☐ msg("Hello World");

1.26 **1.26**

How do you create a function in JavaScript?
Select one alternative:

- ☐ Non of the above
- ☐ function:myFunction()
- ☒ function myFunction()
- ☐ function = myFunction()

1.27 **1.27**

How do you call a function named "myFunction"?
Select one alternative:

- ☐ call function myFunction()
- ☐ call myFunction()
- ☒ myFunction()

1.28 1.28

How to write an IF statement in JavaScript?

Select one alternative:

- ☐ if i <> 5
- ☒ if (i != 5)
- ☐ if (i <> 5)
- ☐ if i != 5 then

1.29 1.29

Which event occurs when the user clicks on an HTML element?

Select one alternative:

- ☐ onmouseover
- ☐ onchange
- ☒ onclick
- ☐ onmouseclick

1.30 1.30

How do you declare a JavaScript variable?

Select one alternative:

- ☐ v carName;
- ☒ var carName;
- ☐ variable carName;

1.31

1.31

What is the JavaScript syntax for printing values in Console?
Select one alternative:

- ☐ print(20);
- ☐ print.console(20);
- ☒ console.log(20);
- ☐ console.print(20);

1.32

1.32

Consider the following HTML/CSS code:

What color will be applied to the text?
Select one alternative:

- ☐ Blue
- ☐ Red
- ☐ Yellow
- ☐ Green
- ☒ Black

2.1

2.1

Predict the output of the following JavaScript code.

```
<script type="text/javascript">  
  a = 5 + "5";  
  document.write(a);  
</script>
```

Fill in your answer here

2.2 **2.2**

Predict the output on the console for the following JavaScript code.

```
<script>
  function testexam() {
    if(true) {
      var a = 20;
    }
    document.write(a);
  }
testexam();
</script>
```

Fill in your answer here

2.3 **2.3**

Predict the output of the following JavaScript Code.

```
<script type="text/javascript">
<!--
document.write("Hello");
//-->
</script>
```

Select one alternative:

- ☒ Hello
- ☐ <!--document.write("Hello");!-->
- ☐ Compilation Error
- ☐ Nothing

2.4

2.4

In the following HTML5 document, each element / tag type occurs exactly once. For each item, specify whether this

1. is not a valid tag / typo,
2. is a valid tag, but is incorrectly placed,
3. is valid but not completed correctly (e.g. wrong location / wrong end tag), or
4. is valid, correctly placed, but has an attribute (or attribute value) that is incorrect.
5. is valid use.

```
<!DOCTYPE html>
<html>
  <head>
    <h1>Exam</h1>
    <script type="text/javascript" src="javascript.js">
    <link rel="stylesheet" src="stil.css">
  </head>
  <body>
    <title>Exam</title>
    <div class="main">
      <p class="main">
        Exam of INFO134 at <a src="http://www.uib.no">UiB</a>.
      </p>
    </div>
  </body>
</html>
```

Please match the ones that fit together

| | Not valid tag | Wrong location | Error terminated | Incorrect attribute value | Valid use |
|---------|----------------------------------|----------------------------------|-----------------------|----------------------------------|----------------------------------|
| doctype | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> |
| html | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> |
| head | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| h1 | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| script | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| link | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> |
| body | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> |
| title | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| div | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> |
| p | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> |
| a | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> |

2.5 2.5

Consider the following HTML document and CSS script:

```
<div class="container">
  1
  <p id="first">
    2
  </p>
</div>
<div>
  3
  <p id="second">
    4
  </p>
</div>
```

```
.container {
  color: green;
  background-color: yellow;
}

#first {
  color: blue;
}

#second {
  color: blue;
}

.container p {
  color: red;
  background-color: purple;
}

body {
  color: black;
  background-color: white;
}
```

What text color does the digits (1,2,3,4) have?

Please match the ones that fit together

| | black | red | blue | green |
|---|----------------------------------|-----------------------|----------------------------------|----------------------------------|
| 1 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> |
| 2 | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> |
| 3 | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4 | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> |

2.6

2.6

Consider the following HTML document and CSS script:

```
<div class="container">
  1
  <p id="first">
    2
  </p>
</div>
<div>
  3
  <p id="second">
    4
  </p>
</div>
```

```
.container {
  color: green;
  background-color: yellow;
}

#first {
  color: blue;
}

#second {
  color: blue;
}

.container p {
  color: red;
  background-color: purple;
}

body {
  color: black;
  background-color: white;
}
```

What background color of the digits (1,2,3,4)?

Please match the ones that fit together

| | white | yellow | purple | invisible |
|---|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| 1 | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2 | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> |
| 3 | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> |

2.7

2.7

What is the highest digit printed when evaluating the following JavaScript programs?
In each case, assume that each task is loaded by an otherwise blank HTML document; only one JavaScript program is loaded at a time.

(A)
for (var i=0, i<3, i++){
 console.log(i);
}

(B)
function f(){
 for (var i=0, i<3, i++){
 var j=i;
 }
}
f();
console.log(j);

(C)
function f(){
 for (var i=0, i<3, i++){
 j=i;
 }
}
f();
console.log(j);

(D)
function f(g){
 for (var i=0, i<g(), i++){
 console.log(i-1);
 }
}
function g(){
 return 5;
}
f(g);

(E)
var g=0;
function f(x){
 g=x+1;
}
if g(){
 f(g);
}
console.log(g);

(F)
function f(x){
 function g(n,m){
 if (m){
 return n*m;
 }
 return n*n;
 }
 console.log(x*g(x));
}
f(2);

Please match the ones that fit together:

| | 1 | 2 | 5 | 0 | 3 | 4 | 6 to 9 | No digits |
|---|-----------------------|----------------------------------|-----------------------|-----------------------|----------------------------------|-----------------------|----------------------------------|----------------------------------|
| E | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> |
| C | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| D | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| B | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> |
| A | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| F | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> |

Which of the following JavaScript [snippets](#) will create an alert box containing "Hello John Doe"?

(A)

```
var Person = function (firstName, lastName, age) {
  this.firstName = firstName;
  this.lastName = lastName;
  this.age = age;
};

person = new Person("John", "Doe", "50");

Person.prototype.sayHello = function () {
  alert("Hello " + this.firstName + " " + this.lastName);
};

person.sayHello();
```

(B)

```
var Person = function (firstName, lastName, age) {
  this.firstName = firstName;
  this.lastName = lastName;
  this.age = age;
};

person = new Person("John", "Doe", "50");

Person.sayHello = function () {
  alert("Hello " + this.firstName + " " + this.lastName);
};

person.sayHello();
```

(C)

```
var person = {
  firstName: "John",
  lastName: "Doe",
  age: "50"
};

person.sayHello = function () {
  alert("Hello " + this.firstName + " " + this.lastName);
};

person.sayHello();
```

(D)

```
var person = {
  firstName: "John",
  lastName: "Doe",
  age: "50"
};

person.prototype.sayHello = function () {
  alert("Hello " + this.firstName + " " + this.lastName);
};

person.sayHello();
```

Select all correct ones:

- ☒ A
- ☐ B
- ☒ C
- ☐ D

3.1

3.1

Reorder the lines of the program below that computes a student’s letter grade based on two exams. The program should read the exam scores, average the values, and generate a message (“Excellent”, “Good” or “Contact Us”) according to the following cutoffs:

“Excellent” → if the numeric grade is 95 or above

“Great” → if the numeric grade is greater than or equal to 80 and less than 95

“Contact Us” → any value less than 80

The program should:

- Use the message “Enter score” to read a value.
- Display the final message using alert.
- Ask to enter "x" value first then "y" value.

Please choose the correct line number:

```
document.writeln(message); 10 (1, 2, 3, 4, 5, 6, 7, 8, 9, 10).
message = "Great"; 7 (1, 2, 3, 4, 5, 6, 7, 8, 9, 10)
message = "Contact Us"; 9 (1, 2, 3, 4, 5, 6, 7, 8, 9, 10).
message = "Excellent"; 5 (1, 2, 3, 4, 5, 6, 7, 8, 9, 10).
var x = Number(prompt("Enter value")); 1 (1, 2, 3, 4, 5, 6, 7, 8, 9, 10).
var message; var a = (x + y) /2; 3 (1, 2, 3, 4, 5, 6, 7, 8, 9, 10).
if (a >= 95) { 4 (1, 2, 3, 4, 5, 6, 7, 8, 9, 10).
var y = Number(prompt("Enter value")); 2 (1, 2, 3, 4, 5, 6, 7, 8, 9, 10).
else { 8 (1, 2, 3, 4, 5, 6, 7, 7, 8, 9, 10).
else if (a >= 80 && a < 95) { 6 (1, 2, 3, 4, 5, 6, 7, 8, 9, 10).
```


3.2 3.2

Assume you have the script below that stores some information about books as the following.

```
var library = [
  {
    title: 'Bill Gates',
    author: 'The Road Ahead',
    readingStatus: true
  },
  {
    title: 'Steve Jobs',
    author: 'Walter Isaacson',
    readingStatus: true
  },
  {
    title: 'Mockingjay: The Final Book of The Hunger Games',
    author: 'Suzanne Collins',
    readingStatus: false
  }
];
```

Write a separate JavaScript function called "readIt" that could be called to display the reading status (i.e. display book name, author name and reading status) of all books in previous script. **The function should display results in the console log.**

Sample Output:

- If the readingStatus = "true", the function should print (Already read "title" by "author")
- If the readingStatus = "false", the function should print (You have to read "title" by "author")

Fill in your answer here:

| | | |
|----|--|--|
| 1 | readit = function () { | |
| 2 | var i = 0; | |
| 3 | for (var book in library) { | |
| 4 | if (library[i].readingStatus == true) { | |
| 5 | console.log("Already read " + library[i].title + " by " + library[i].author) | |
| 6 | } else { | |
| 7 | console.log("You have to read " + library[i].title + " by " + library[i].author) | |
| 8 | } | |
| 9 | i++; | |
| 10 | } | |
| 11 | } | |
| 12 | readit(); | |

3.3 3.3

Assume you have the function below “createObjMethod” that received 4 values and return them as student information (name, age, rank, and country) respectively as the following:

```
function createObjMethod(name, age, rank, country) {
  return {
    name, age, rank, country
  }
}
var Students1 = createObjFactoryMethod('Dinanath', 35, 5, 'India');
console.log('Students1: ' + Students1.name+ " , "+ Students1.age+", "+ Students1.rank+", "+Students1.country);
```

Rewrite the script above using a “Student” Constructor that can do the same job as the previous script.

You should define a constructor “Student” that takes the same four arguments as the function above (name, age, rank, country) for the second student "Student2". The 2nd student's details you should pass to the constructor are ('Nore', 30, 4, 'Norway'). All of these should be stored as properties on the object you create with this constructor. The properties should have the same name listed. You should also follow the script above and print the result in console log.

Fill in your answer here

| | | |
|----|--|--|
| 1 | var Student = function (name, age, rank, country) { | |
| 2 | this.name = name; | |
| 3 | this.age = age; | |
| 4 | this.rank = rank; | |
| 5 | this.country = country; | |
| 6 | }; | |
| 7 | | |
| 8 | student2 = new Student("Nore", 30, 4, "Norway"); | |
| 9 | | |
| 10 | Student.prototype.print = function () { | |
| 11 | console.log('Students2: ' + this.name + ", " + this.age + ", " + this.rank + ", " + this | |
| 12 | .country | |
| 13 |) | |
| 14 | }; | |
| 15 | student2.print(); | |

3.4 3.4

Write a function "myFunction" that takes a URL pointing to a JSON resource as a parameter, downloads the file, interprets the data (in other words: restores the object the data represents), and responds with that object. The response can be given as a call to a callback function, or by your function returning a promise that acts as a proxy value for this data.

Fill in your answer here

| | | |
|----|---|--|
| 1 | var myFunction = function(json_url) { | |
| 2 | var callback; | |
| 3 | var http_request = new XMLHttpRequest(); | |
| 4 | | |
| 5 | http_request.open('GET', json_url); | |
| 6 | http_request.responseType = 'json'; | |
| 7 | http_request.onload = function() { | |
| 8 | var http_status = http_request.status; | |
| 9 | if (http_status === 200) { | |
| 10 | callback(null, http_request.response); | |
| 11 | } else { | |
| 12 | callback(http_status, http_request.response); | |
| 13 | } | |
| 14 | }; | |
| 15 | http_request.send(); | |
| 16 | | |
| 17 | return callback; | |
| 18 | }; | |