



Introduction to Information Systems

- Understanding the digital world

8 Javascript and HTML

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Schedule

Schedule: 1 What is in a Computer, 2 Bit, Bytes and Representation of Information, 3 Inside the CPU, 4 Programming, 5 Algorithms, Programming and Programming Languages, 6 Programming with Python and Scratch, 7 Operating System and Software Systems, 8 **Javascript and HTML**, 9 **Communication and Networks**, 10 **The Internet**, 11 **Data and Information**, 12 **Privacy and Security**, 13 **The World-Wide Web (WWW), HTML, and Wiki**, 14 **Artificial Intelligence (AI) and the Future of Computing**, 15 **The Future of Information System and Overall Review**



Today's schedule

- **HTML Introduction (35')**
- **Javascript (50')**
- **Information and homework (5')**

HTML Introduction



<https://www.w3schools.com/videos/index.php> (5')



https://www.w3schools.com/html/html_intro.asp -> HOME,
Introduction, Editors, Basic (25')



Try the online editor (5'):

https://www.w3schools.com/html/tryit.asp?filename=tryhtml_intro

Javascript Introduction



https://www.youtube.com/watch?v=Ukg_U3CnJWI (12')

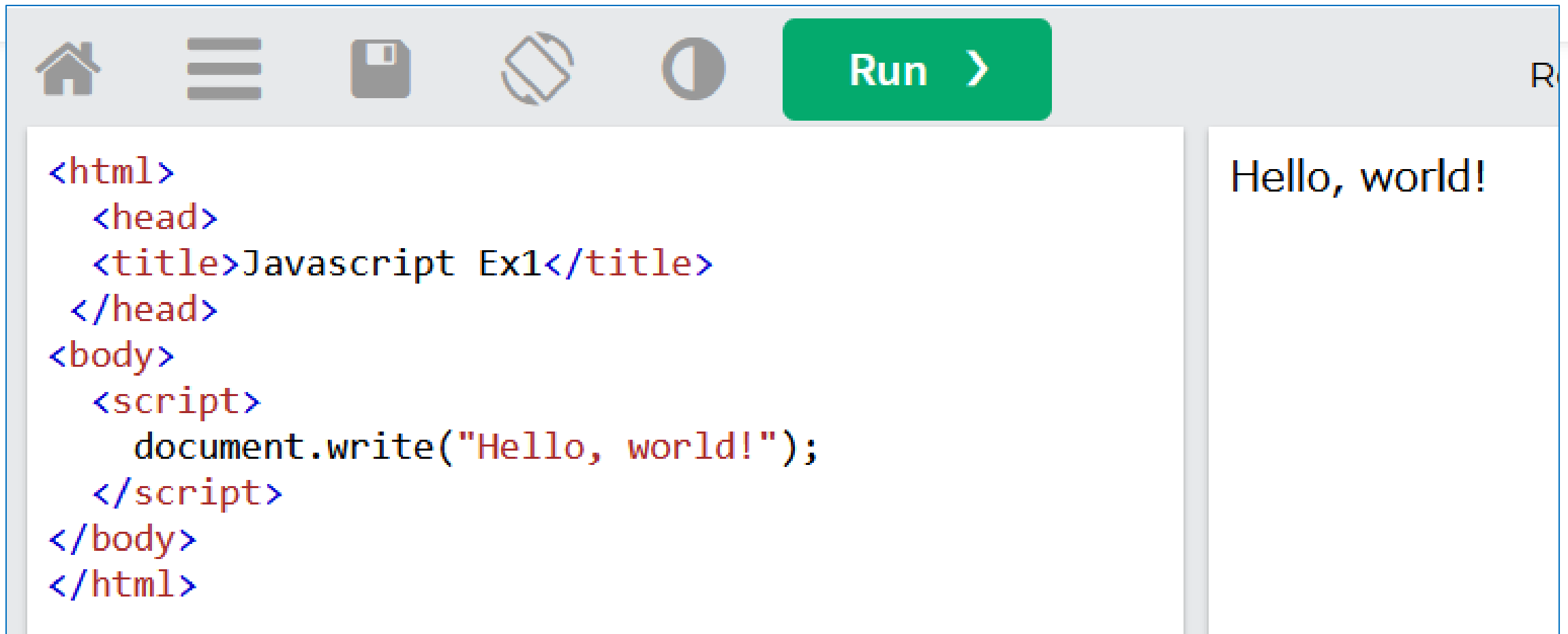
Javascript exercise: hello

```
<html>
  <body>
    <script>
      alert("Hello, world." ) ;
    </script>
  </body>
</html>
```



Access https://www.w3schools.com/js/tryit.asp?filename=tryjs_myfirst. Clear the existing code and input the above code in the left windows. Then run it by clicking the "Run >" button.

ex1

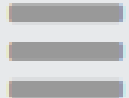


The image shows a code editor interface with a toolbar at the top. The toolbar includes icons for home, menu, save, refresh, and a green 'Run' button with a right-pointing arrow. Below the toolbar is a code editor area containing the following code:

```
<html>
  <head>
    <title>Javascript Ex1</title>
  </head>
  <body>
    <script>
      document.write("Hello, world!");
    </script>
  </body>
</html>
```

To the right of the code editor is a preview area displaying the output: "Hello, world!".

ex2



Run >

```
<html>
  <head><title>Javascript Ex2</title></head>
<body>
  <script>
    var name = prompt("What is your name?");
    var sentence = "Hello, " + name + ".";
    document.write(sentence);
  </script>
</body>
</html>
```

Hello, Z.

ex3

```

<html>
  <head><title>Javascript Ex3</title></head>
<body>
  <script>
    n = prompt("Enter a number please:");
    for (i=1; i<=n; i=i+1) {
      for (j=1; j<=i; j=j+1) { document.write("*"); }
      document.write("<br>");
    }
  </script>
</body>
</html>

```

Run >

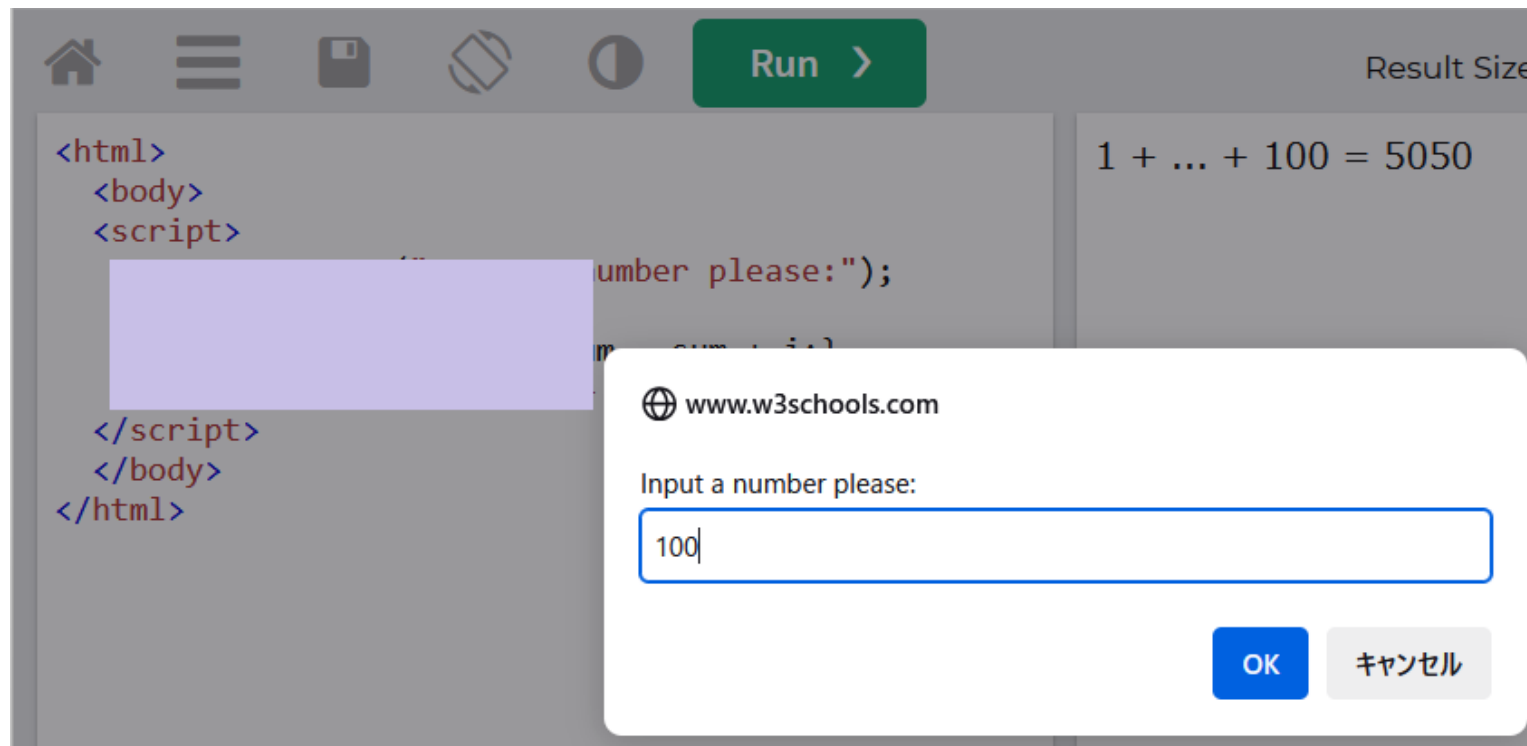
```

*
**
***
****
*****
*****
*****
*****
*****
*****
*****

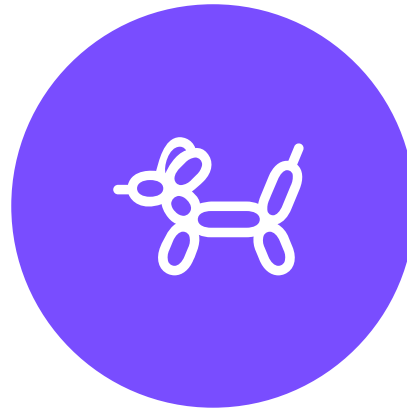
```

Classwork (ex4)

Write a javascript program that reads an integer N from the user, calculates $1 + 2 + \dots + N$, and outputs the result (see the next screenshot for a hint).



Information and homework



THIS WEEK, NONE.