


KOD 01



The image shows the Brackets code editor interface. The title bar indicates the file is "1.html - Brackets". The menu bar includes File, Edit, Find, View, Navigate, Debug, and Help. The left sidebar shows the "Working Files" panel with "1.html" selected, and a "JavaScripts" panel below it. The main editor area displays the following HTML code:

```
1 <html>
2   <head>
3     <meta http-equiv="Content-Type"
4           content="text/html; charset=UTF-8" />
5   </head>
6
7   <body>
8
9     <h1>Pierwszy skrypt</h1>
10
11    <script>
12      document.write("Pierwszy skrypt w JavaScript");
13    </script>
14
15  </body>
16 </html>
```

A red circle with the number "1" is drawn around the meta tag on line 4, with a line pointing to it from the right margin.

```
1  <html>
2    <head>
3      <meta http-equiv="Content-Type"
4        content="text/html; charset=UTF-8" />
5    </head>
6
7  <body>
8
9    <h1>Pierwszy skrypt</h1>
10
11   <p id="p1">rezultat</p>
12
13   <script>
14     document.getElementById("p1").innerHTML = "Kod JS";
15   </script>
16
17 </body>
18 </html>|
```

```
1  <html>
2    <head>
3      <meta http-equiv="Content-Type"
4        content="text/html; charset=UTF-8" />
5    </head>
6
7  <body>
8
9    <h1>Zmienne w JavaScript</h1>
10
11   <script>
12     var zmienna1 = 12;
13     var zmienna2 = 0.5;
14     var wynik = zmienna1 * zmienna2;
15
16     document.write(zmienna1, " * ", zmienna2, " = ", wynik, "<br>");
17
18     var text = zmienna1 + " * " + zmienna2 + " = " + wynik;
19     document.write(text);
20   </script>
21
22 </body>
23 </html>
```

KOD 04

```
1  <html>
2      <head>
3          <meta http-equiv="Content-Type"
4              content="text/html; charset=UTF-8" />
5      </head>
6
7  <body>
8
9      <h1>Instrukcja warunkowa if</h1>
10
11     <script>
12         var liczba = 8;
13
14         if (liczba > 10) {
15             document.write("Liczba ", liczba, " jest wieksza od liczby 10");
16         }
17         else if (liczba == 10) {
18             document.write("Liczba ", liczba, " jest rowna liczbie 10");
19         }
20         else {
21             document.write("Liczba ", liczba, " jest mniejsza od liczby 10");
22         }
23     </script>
24
25 </body>
26 </html>
```

KOD 05

```
1  <html>
2    <head>
3      <meta http-equiv="Content-Type"
4        content="text/html; charset=UTF-8" />
5    </head>
6
7  <body>
8
9    <h1>Instrukcja warunkowa switch</h1>
10
11    <script>
12      number = 8;
13
14      document.write("Liczba: ", number, " to słownie: ");
15
16      switch(number)
17      {
18        case 0: document.write("Zero");
19              break;
20
21        case 2: document.write("Dwa");
22              break;
23
24        case 8: document.write("Osiem");
25              break;
26
27        default: document.write("Nie potrafię przetłumaczyć");
28      }
29    </script>
30
31  </body>
32 </html>
```

```
1  <html>
2    <head>
3      <meta http-equiv="Content-Type"
4        content="text/html; charset=UTF-8" />
5    </head>
6
7  <body>
8
9    <h1>Petla For</h1>
10
11   <script>
12     for (var index = 1; index <= 10; ++index)
13     {
14       var result = index * index;
15
16       document.write(index, " * ", index, " = ", result, "<br>");
17     }
18   </script>
19
20
21 </body>
22 </html>
```

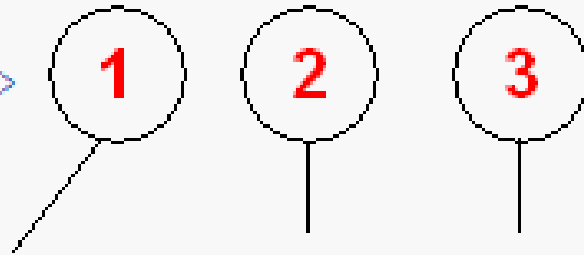


Diagram illustrating the code structure with callouts:

- 1: Points to the variable `index` in the `for` loop.
- 2: Points to the loop condition `index <= 10`.
- 3: Points to the increment `++index`.

```
1  <html>
2    <head>
3      <meta http-equiv="Content-Type"
4        content="text/html; charset=UTF-8" />
5    </head>
6
7  <body>
8
9    <h1>Pętla while</h1>
10
11    <script>
12      var index = 1;
13
14      while( index <= 10 ) ————— 1
15      {
16        result = index * index;
17
18        document.write(index, " * ", index, " = ", result, "<br>");
19
20        index++; ————— 2
21      }
22    </script>
23
24  </body>
25  </html>
```

KOD 08

```
1  <html>
2    <head>
3      <meta http-equiv="Content-Type"
4        content="text/html; charset=UTF-8" />
5    </head>
6
7  <body>
8
9    <h1>Pętla do while</h1>
10
11    <script>
12      var index = 1;
13
14      do ————— 1
15      {
16        var result = index * index;
17
18        document.write(index, " * ", index, " = ", result, "<br>");
19
20        index++; ————— 2
21      }
22      while( index <= 10 ) — 3
23    </script>
24
25  </body>
26  </html>
```


KOD 09

```
1  <html>
2    <head>
3      <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
4    </head>
5
6  <body>
7
8    <h1>Instrukcja continue i break</h1>
9
10   <script>
11     for (var index = 1; index <= 10; ++index)
12     {
13       if (index == 5)
14       {
15         document.write("Instrukcja continue <br>");
16         continue;
17       }
18
19       document.write(index, "<br>");
20
21       if (index == 7)
22       {
23         document.write("Instrukcja break <br>");
24         break;
25       }
26     }
27   </script>
28
29 </body>
30 </html>
```

KOD 10

```
1  <html>
2    <head>
3      <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
4    </head>
5
6  <body>
7
8    <h1>Operatory arytmetyczne</h1>
9
10   <script>
11
12     var firstNumber = 10;
13     var secondNumber = 6;
14
15     var result = firstNumber % secondNumber;
16
17     document.write(result, "<br>");
18   </script>
19
20 </body>
21 </html>
```

KOD 11

```
1  <html>
2    <head>
3      <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
4    </head>
5
6  <body>
7
8    <h1>Operatory logiczne</h1>
9
10   <script>
11
12     var firstNumber = 10;
13     var secondNumber = 6;
14
15     if (firstNumber == 10 && secondNumber <= 6)
16     {
17       document.write("Warunek został spełniony");
18     }
19
20   </script>
21
22 </body>
23 </html>
```

KOD 12

```
1  <html>
2    <head>
3      <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
4    </head>
5    <body>
6      <h1>Funkcje</h1>
7      <script>
8        var argument1 = 10;
9        var argument2 = 8;
10
11        var rezultat = dodaj(argument1, argument2);
12
13        document.write(rezultat);
14
15        test();
16
17        function dodaj(parametr1, parametr2)
18        {
19          var wynik = parametr1 + parametr2;
20
21          return wynik;
22        }
23
24        function test()
25        {
26          document.write("<br><b>Autor: Piotr Druciak</b>");
27        }
28      </script>
29    </body>
30  </html>
```

KOD 13

```
1  <html>
2    <head>
3      <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
4    </head>
5  <body>
6    <h1>Funkcja z argumentem domniemanym</h1>
7    <script>
8      var number = 2;
9
10     document.write(number, " to the power of 5 = ",
11                     power(number, 5), "<br>");
12
13     number = 8;
14
15     document.write(number, " to the power of 2 = ",
16                     power(number), "<br>");
17
18     function power(number, power = 2)
19     {
20       var result = 1;
21
22       for(var index = 0; index < power; ++index)
23       {
24         result *= number;
25       }
26
27       return result;
28     }
29   </script>
30 </body>
31 </html>
```

KOD 14

```
1 <html>
2   <head>
3     <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
4   </head>
5   <body>
6     <h1>Obliczanie silni</h1>
7
8     <form name="myForm">
9       <p> <b>Podaj liczbę:</b>
10         <input type="number" name="myNumber" value="0" size=2> </p>
11         <input type="reset" value="Wyczyść">
12         <input type="button" value="Oblicz"
13   onclick="obliczSilnie(document.myForm.myNumber.value)"> 1
14     </form>
15
16     <p id="result"></p>
17
18     <script>
19       function obliczSilnie(liczba)
20       {
21         var wynik = silnia(liczba); 2
22
23         if (wynik > 0)
24         {
25           document.getElementById("result").innerHTML =
26             "<h3 style='color:blue;'>Silnia liczby " + liczba +
27             " wynosi: " + wynik + "</h3>";
28         }
29       }
30
```

KOD 15

```
30
31     function silnia(liczba)
32     {
33         if (liczba == 0 || liczba == 1)
34         {
35             return 1;
36         }
37         else if (liczba < 0)
38         {
39             error();
40             return -1;
41         }
42
43         var wynik = liczba * silnia(liczba - 1);
44
45         return wynik;
46     }
47
48     function error()
49     {
50         document.getElementById("result").innerHTML =
51             "<h3 style='color:red;'> Błąd: Nie można obliczyć silni
52             dla liczby ujemnej! </h3>";
53     }
54 </script>
55 </body>
56 </html>
```



```
1  <html>
2    <head>
3      <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
4    </head>
5  <body>
6    <h1>Obiekt String</h1>
7
8    <script>
9      var text = "Programowanie aplikacji internetowych";
10
11      document.write(text, "<br>");
12      document.writeln("Długość tekstu = ", text.length, "<br>");
13
14      document.write(text.toUpperCase(), "<br>");
15      document.write(text.toLowerCase(), "<br>");
16
17      document.write(text.substr(14, 10), "<br>");
18      document.write(text.substring(14, 23), "<br>");
19
20    </script>
21  </body>
22 </html>
```


KOD 17

```
1  <html>
2    <head>
3      <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
4    </head>
5  <body>
6    <h1>Obiekt String</h1>
7
8    <script>
9      var text = "Programowanie aplikacji internetowych";
10     var text2 = " jest super!";
11
12     document.write(text.concat(text2), "<br>");
13
14     document.write(text2.search("super"), "<br>");
15
16     document.write(text.replace("aplikacji", "stron"), "<br>");
17
18     document.write(text.charAt(0), " = ", text.charCodeAt(0), "<br>");
19     document.write(text.charAt(5), " = ", text.charCodeAt(5), "<br>");
20
21   </script>
22 </body>
23 </html>
```

```
1  <html>
2    <head>
3      <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
4    </head>
5    <body>
6      <h1>Obiekt Date</h1>
7
8      <script>
9        var currentDate = new Date();
10
11        document.write(currentDate, "<br>");
12
13        document.write(currentDate.toLocaleDateString(), " - ");
14        document.write(currentDate.toLocaleTimeString(), "<br>");
15
16        document.write(currentDate.toUTCString(), "<br>");
17
18        document.write(currentDate.getDate(), "-",
19                        currentDate.getMonth() + 1, "-",
20                        currentDate.getFullYear(), " ",
21                        currentDate.getHours(), ":",
22                        currentDate.getMinutes(), ":",
23                        currentDate.getSeconds(), "<br>");
24
25      </script>
26    </body>
27  </html>
```

```
1  <html>
2    <head>
3      <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
4    </head>
5    <body>
6      <h1>Obiekt Date</h1>
7
8      <script>
9        var birthDate = new Date(1982, 5, 8);
10       var currentDate = new Date();
11       var years = currentDate.getFullYear() - birthDate.getFullYear();
12
13       document.write("Data urodzenia: ",
14         birthDate.toLocaleDateString(), "<br>");
15       document.write("Twój wiek = ", years, "<br>");
16
17       var myDate = new Date("2012 08 04");
18
19       myDate.setHours(15);
20       myDate.setMinutes(45);
21
22       document.write(myDate.toLocaleDateString(), " - ");
23       document.write(myDate.toLocaleTimeString(), "<br>");
24
25     </script>
26   </body>
27 </html>
28
```

KOD 20

```
1  <html>
2    <head>
3      <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
4    </head>
5    <body>
6      <h1>Obiekt Array</h1>
7
8      <script>
9        var numbers = [12, 43, 23, 65, 23];
10
11        document.write("Rozmiar tablicy = ", numbers.length, "<br>");
12
13        document.write("Trzeci element = ", numbers[2], "<br>");
14
15        numbers[3] = 125;
16
17        document.write("Czwarty element = ", numbers[3], "<br>");
18
19        numbers[7] = 52;
20
21        document.write("Rozmiar tablicy = ", numbers.length, "<br><br>");
22
23        for (var index = 0; index < numbers.length; ++index)
24        {
25          document.write("numbers[" + index + "] = ", numbers[index], "<br>");
26        }
27
28      </script>
29    </body>
30  </html>
```

KOD 21

```
1 <html>
2   <head>
3     <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
4   </head>
5 <body>
6   <h1>Obiekt Array</h1>
7
8   <script>
9     var names = [];
10
11     names[0] = "Jacek";
12     names[1] = "Piotrek";
13     names[2] = "Magdalena";
14     names[3] = 256;
15     names[4] = (new Date(1982, 5, 8)).toLocaleDateString();
16     names[5] = "Basia";
17
18     document.write("Rozmiar tablicy = ", names.length, "<br><br>");
19
20     for (var index = 0; index < names.length; ++index)
21     {
22       document.write("names[" + index + "] = ", names[index], "<br>");
23     }
24
25   </script>
26 </body>
27 </html>
```

```
1 <html>
2   <head>
3     <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
4   </head>
5 <body>
6   <h1>Obiekt Array</h1>
7
8   <script>
9     var numbers = [];
10
11     numbers[0] = [4, 6, 2];
12     numbers[1] = [5, 8, 1];
13     numbers[2] = [3, 7, 9];
14
15     for (var row = 0; row < numbers.length; ++row)
16     {
17       for (var column = 0; column < numbers[row].length; ++column)
18       {
19         document.write(numbers[row][column], " ");
20       }
21
22       document.write("<br>");
23     }
24
25   </script>
26 </body>
27 </html>
```

KOD 23

```
1  <html>
2    <head>
3      <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
4    </head>
5    <body>
6      <h1>Obiekt Array</h1>
7
8      <script>
9        var numbers = [12, 43, 23, 65, 58];
10
11        document.write("Rozmiar tablicy = ", numbers.length, "<br>");
12
13        document.write("Ostatni element = ", numbers.pop(), "<br>");
14
15        document.write("Rozmiar tablicy = ", numbers.length, "<br><br>");
16
17        numbers.push(37);
18        numbers.push(92);
19
20        numbers.reverse();
21
22        for (var index = 0; index < numbers.length; ++index)
23        {
24          document.write("numbers[" , index, "] = ", numbers[index], "<br>");
25        }
26
27      </script>
28    </body>
29  </html>
```

KOD 24

```
1  <html>
2    <head>
3      <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
4    </head>
5    <body>
6      <h1>Obiekt Array</h1>
7
8      <script>
9        var tab = [];
10
11        for (var index = 0; index < 10; index++)
12        {
13          tab[index] = Math.floor(Math.random() * 100) + 1;
14
15          document.write(tab[index], ", ");
16        }
17
```


KOD 25

```
17
18     tab.sort(ascending);
19
20     displayArray(tab);
21
22     function displayArray(array)
23     {
24         document.write("<br><br>");
25
26         for (var index = 0; index < array.length; index++)
27         {
28             document.write(array[index], ", ");
29         }
30     }
31
32     function ascending(a, b) { return a - b; }
33
34     function descending(a, b) { return b - a; }
35
36     </script>
37 </body>
38 </html>
```