

Task 1: Greeting Function

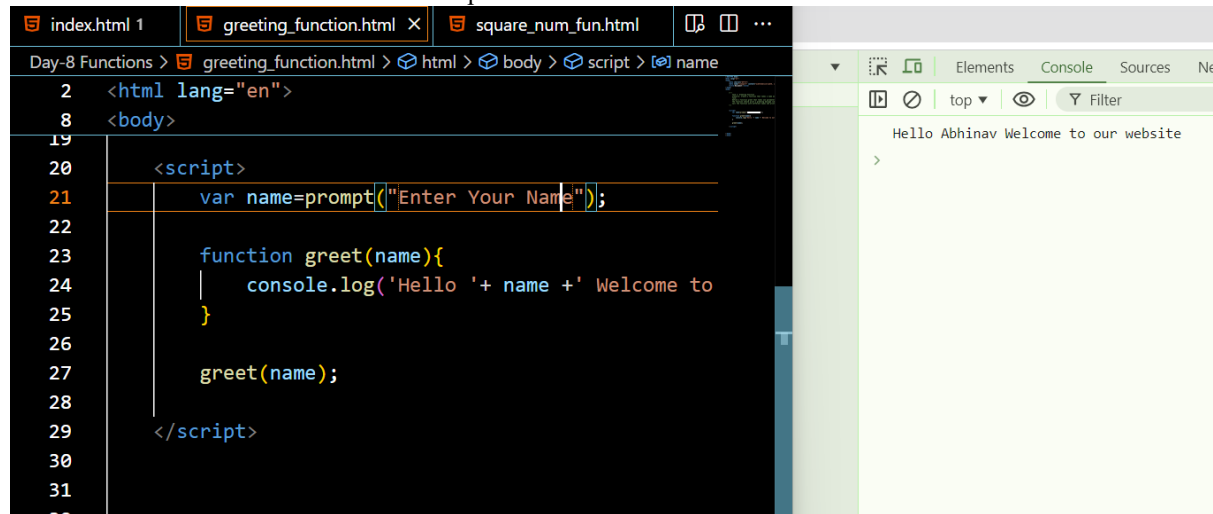
Scenario: Create a function that takes a name as an argument and returns a greeting message.

Task:

Define a function greet that takes one parameter name.

The function should print a greeting message like "Hello, [name]!".

Call the function with different names and print the results.



The screenshot shows a web browser with three tabs: 'index.html 1', 'greeting_function.html X', and 'square_num_fun.html'. The 'greeting_function.html' tab is active, displaying the following code in the editor:

```
2 <html lang="en">
8 <body>
19
20 <script>
21   var name=prompt("Enter Your Name");
22
23   function greet(name){
24     console.log('Hello ' + name + ' Welcome to
25   }
26
27   greet(name);
28
29 </script>
30
31
```

The browser's console shows the output: "Hello Abhinav Welcome to our website".

Task 2: Sum Function

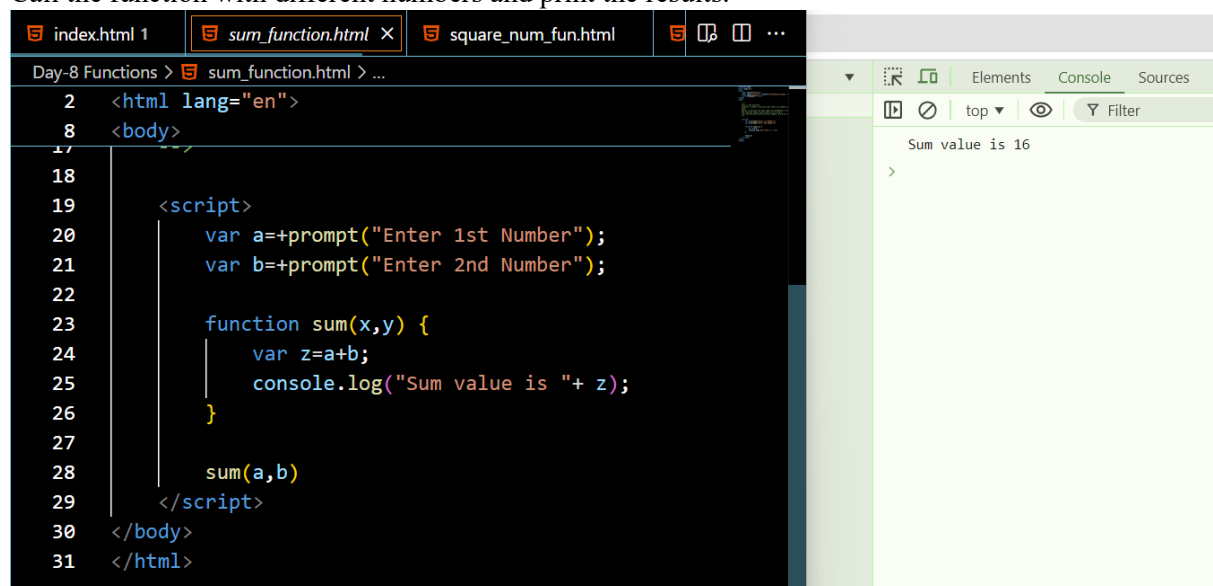
Scenario: Create a function that takes two numbers as arguments and returns their sum.

Task:

Define a function sum that takes two parameters a and b.

The function should return the sum of a and b.

Call the function with different numbers and print the results.



The screenshot shows a web browser with four tabs: 'index.html 1', 'sum_function.html X', 'square_num_fun.html', and '...'. The 'sum_function.html' tab is active, displaying the following code in the editor:

```
2 <html lang="en">
8 <body>
17
18
19 <script>
20   var a+=prompt("Enter 1st Number");
21   var b+=prompt("Enter 2nd Number");
22
23   function sum(x,y) {
24     var z=a+b;
25     console.log("Sum value is "+ z);
26   }
27
28   sum(a,b)
29 </script>
30 </body>
31 </html>
```

The browser's console shows the output: "Sum value is 16".

Task 3: Square Function

Scenario: Create a function that takes a number as an argument and returns its square.

Task:

Define a function square that takes one parameter num.

The function should return the square of num.

Call the function with different numbers and print the results.

```
index.html 1 | square_num_fun.html X | avg_function.html | ...
Day-8 Functions > square_num_fun.html > html > body > script > sum
2  lang="en">
8
19  :ript>
20  var a=+prompt("Enter 1st Number");
21
22  function sum(a) {
23      var x=a**2;
24      console.log("Square number of "+ a +" is "+ x);
25  }
26
27  sum(a)
28  :script>
29  >
30  >
```

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Square number of 7 is 49

Task 4: Average Function

Scenario: Create a function that takes an array of numbers as an argument and returns the average.

Task:

hint: $[2,5,2] = 9/3 = 3$

Define a function average that takes one parameter arr.

The function should return the average of the numbers in arr.

Call the function with different arrays and print the results.

```
index.html 1 | avg_function.html X | vowels.html M | temp_conve | ...
Day-8 Functions > avg_function.html > html > body > script > avg
2  lang="en">
8
23  :ript>
24  var len=+prompt("Enter Length of the string");
25  var a=[];
26  var sum=0;
27  for(i=0;i<len;i++){
28      a[i]= +prompt("");
29  }
30  console.log("Given Array is "+a);
31
32  function avg(a) {
33      for(i=0;i<len;i++){
34          sum=sum+a[i];
35      }
36      var avg=sum/len;
37      console.log("avg value of given numbers "+avg);
38  }
39  avg(a);
40
```

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Given Array is 4,5,6

avg value of given numbers 5

Task 5: Vowels Function

Scenario: Create a function that takes a string as an argument and returns whether the string contains vowels or not.

Task:

Define a function that takes one parameter str.

The function should return whether string contains vowels or not.

use loops and if conditions

Call the function with different strings and print the results.

hello --a,e,i,o,u---it contains vowels

hll---it doesn't contain vowels

```
<script>
var str1=prompt("Enter a word to check it is vowel or not");
console.log("Entered word is:"+str1);
var a=str1.toLowerCase();

function vowel(a) {
    for(i=0;i<a.length;i++){
        if(a[i]=="a" || a[i]=="e" || a[i]=="i" || a[i]=="o" || a[i]=="u"){
            window.alert("Given Word Consists Vowels");
            console.log("Given Word Consists Vowels");
            break;
        }
        else{
            window.alert("it doesn't contains vowels");
            console.log("it doesn't contains vowels");
            break;
        }
    }
}

vowel(a);
</script>
```

Entered word is:Abhinav
Given Word Consists Vowels

```
<script>
var str1=prompt("Enter a word to check it is vowel or not");
console.log("Entered word is:"+str1);
var a=str1.toLowerCase();

function vowel(a) {
    for(i=0;i<a.length;i++){
        if(a[i]=="a" || a[i]=="e" || a[i]=="i" || a[i]=="o" || a[i]=="u"){
            window.alert("Given Word Consists Vowels");
            console.log("Given Word Consists Vowels");
            break;
        }
        else{
            window.alert("it doesn't contains vowels");
            console.log("it doesn't contains vowels");
            break;
        }
    }
}

vowel(a);
</script>
```

Entered word is:fry
it doesn't contains vowels

Task 6: Temperature Converter

Scenario: Create a function that converts temperatures between Celsius and Fahrenheit.

Task:

Define a function `convertTemperature` that takes two parameters: `temp` (the temperature) and `scale` (the scale to convert to, either "C" or "F").

The function should return the converted temperature.

Test the function with different temperatures and scales and print the results.

Hints:-

formula for celscius $(temp - 32) * 5/9$

formula for fahreihnheit $(temp * 9/5) + 32$

index.html 1 | vowels.html M | temp_converter.html X

Day-8 Functions > temp_converter.html > ...

```
2 <html lang="en">
8 <body>

21
22
23 <script>
24   var a=prompt("if you need to convert fahrenheit to celsious press c (or) need
25   var b=prompt("Enter Your Temperature");
26   console.log(a);
27   console.log(b);
28
29   function temp(a,b) {
30     if(a=='c'){
31       t=(b-32)*5/9;
32       console.log("Your Temperature is converted into Celsious: "+t);
33     }
34     else if(a=='f'){
35       t=(b*9/5)+32;
36       console.log("Your Temperature is converted into Fahrenheit: "+t);
37     }
38     else{
39       console.log("Enter Your Correct Details");
40     }
41   }
42   temp(a,b);
43 </script>
44 </body>
45 </html>
```

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85

Your Temperature is converted into Fahrenheit: 185

>

index.html 1 | vowels.html M | temp_converter.html X

Day-8 Functions > temp_converter.html > ...

```
2 <html lang="en">
8 <body>

21
22
23 <script>
24   var a=prompt("if you need to convert fahrenheit to celsious press c (or) need
25   var b=prompt("Enter Your Temperature");
26   console.log(a);
27   console.log(b);
28
29   function temp(a,b) {
30     if(a=='c'){
31       t=(b-32)*5/9;
32       console.log("Your Temperature is converted into Celsious: "+t);
33     }
34     else if(a=='f'){
35       t=(b*9/5)+32;
36       console.log("Your Temperature is converted into Fahrenheit: "+t);
37     }
38     else{
39       console.log("Enter Your Correct Details");
40     }
41   }
42   temp(a,b);
43 </script>
44 </body>
45 </html>
```

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top | Filter

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Your Temperature is converted into Celsious: 112.77777777777777

>