JavaScript Exercises - Functions and Objects
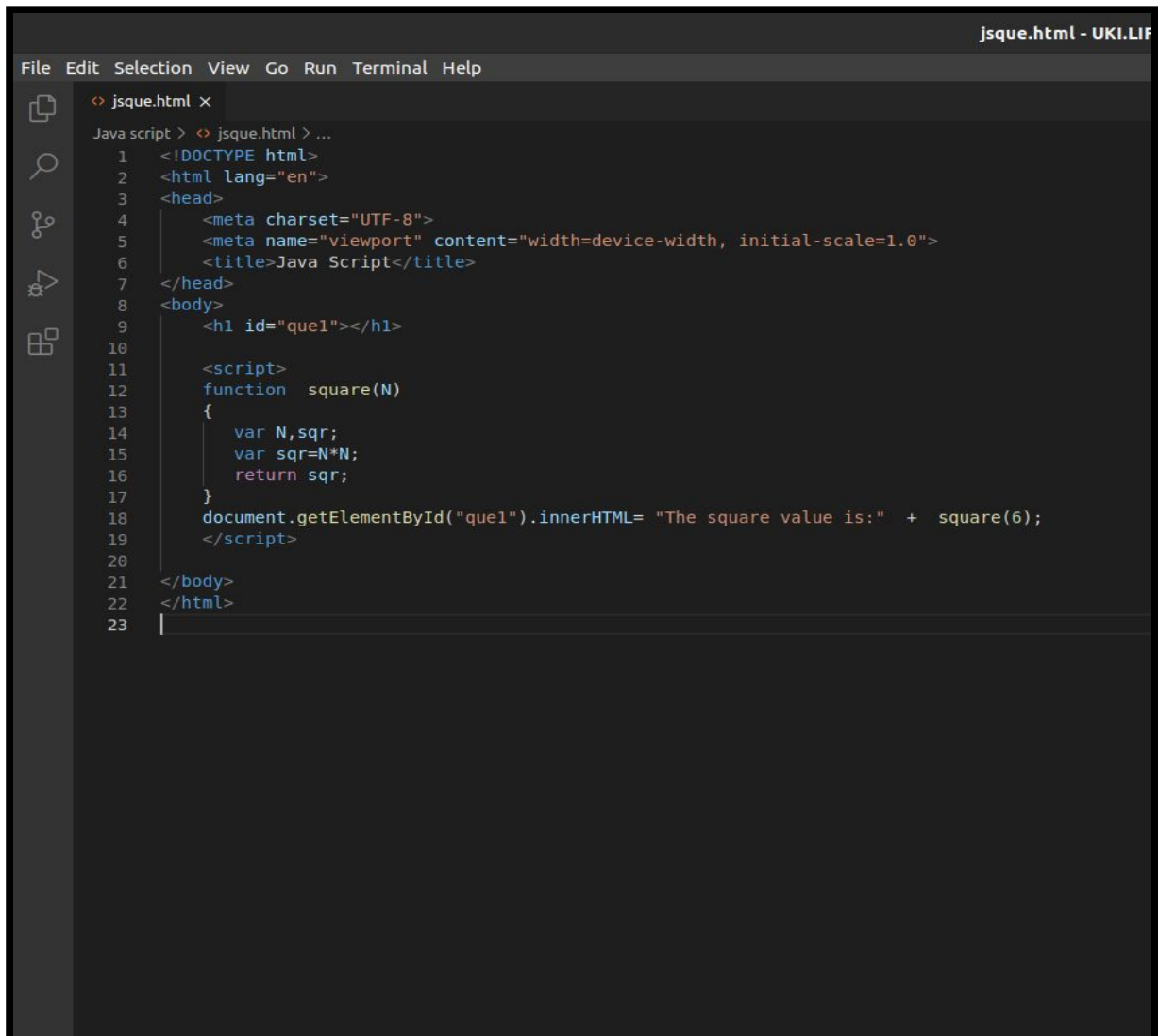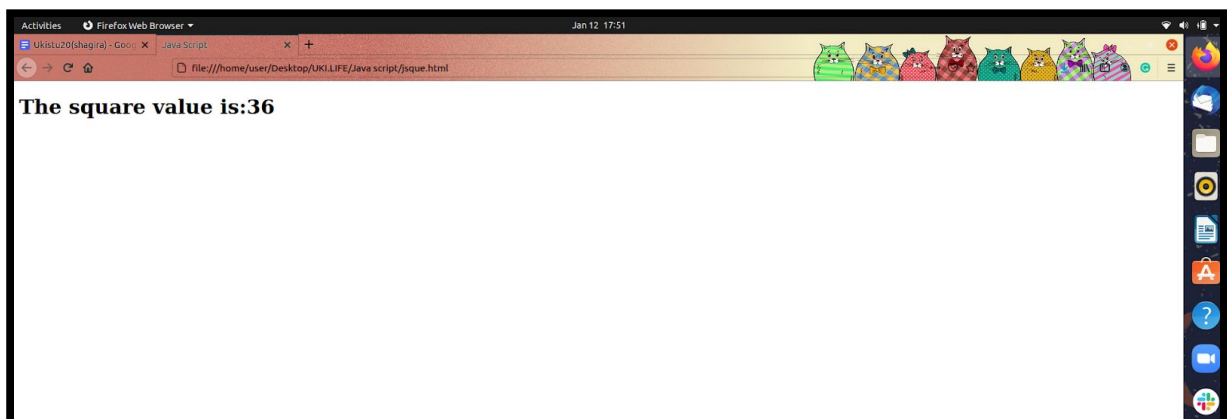
1. Write the function to calculate a number's square?

code:

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Java Script</title>
</head>
<body>
    <h1 id="que1"></h1>

    <script>
    function  square(N)
    {
       var N,sqr;
       var sqr=N*N;
       return sqr;
    }
    document.getElementById("que1").innerHTML= "The square value is:"  +  square(6);
    </script>

</body>
</html>
```

output:

The square value is:36

2. Declare 2 variables as num1 and num2, and
a. Write a function to add these two numbers and name the function as addNum.

code:

```
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<> jsque.html ×

Java script > <> jsque.html > ...
   1    <!DOCTYPE html>
   2    <html lang="en">
   3    <head>
   4        <meta charset="UTF-8">
   5        <meta name="viewport" content="width=device-width, initial-scale=1.0">
   6        <title>Java Script</title>
   7    </head>
   8    <body>
   9        <h1>question 02</h1>
  10        <p id="que2a"></p>
  11
  12        <script>
  13        function  addNum(num1,num2)
  14        {
  15            var add=num1+num2;
  16            return add;
  17        }
  18        document.getElementById("que2a").innerHTML="The addition of the two numbers is "+" "+ addNum(5,5)+".";
  19
  20
  21        </script>
  22
  23    </body>
  24    </html>
  25
```

b. Write a function to multiply these two numbers and name the function as multiNum.

code:

```html
jsque.html - UKI.LIFE - Visual Studio Code

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jsque.html  ✕

a script > <> jsque.html > ...
1    <!DOCTYPE html>
2    <html lang="en">
3    <head>
4        <meta charset="UTF-8">
5        <meta name="viewport" content="width=device-width, initial-scale=1.0">
6        <title>Java Script</title>
7    </head>
8    <body>
9        <h1>question 02</h1>
0        <p id="que2b"></p>
1
2        <script>
3        function  multiNum(num1,num2)
4        {
5            var multi=num1*num2;
6            return multi;
7        }
8        document.getElementById("que2b").innerHTML="The multiplication of the two numbers is "+" "+ multiNum(5,5)+".";
9
0
1        </script>
2
3    </body>
4    </html>
5    |
```
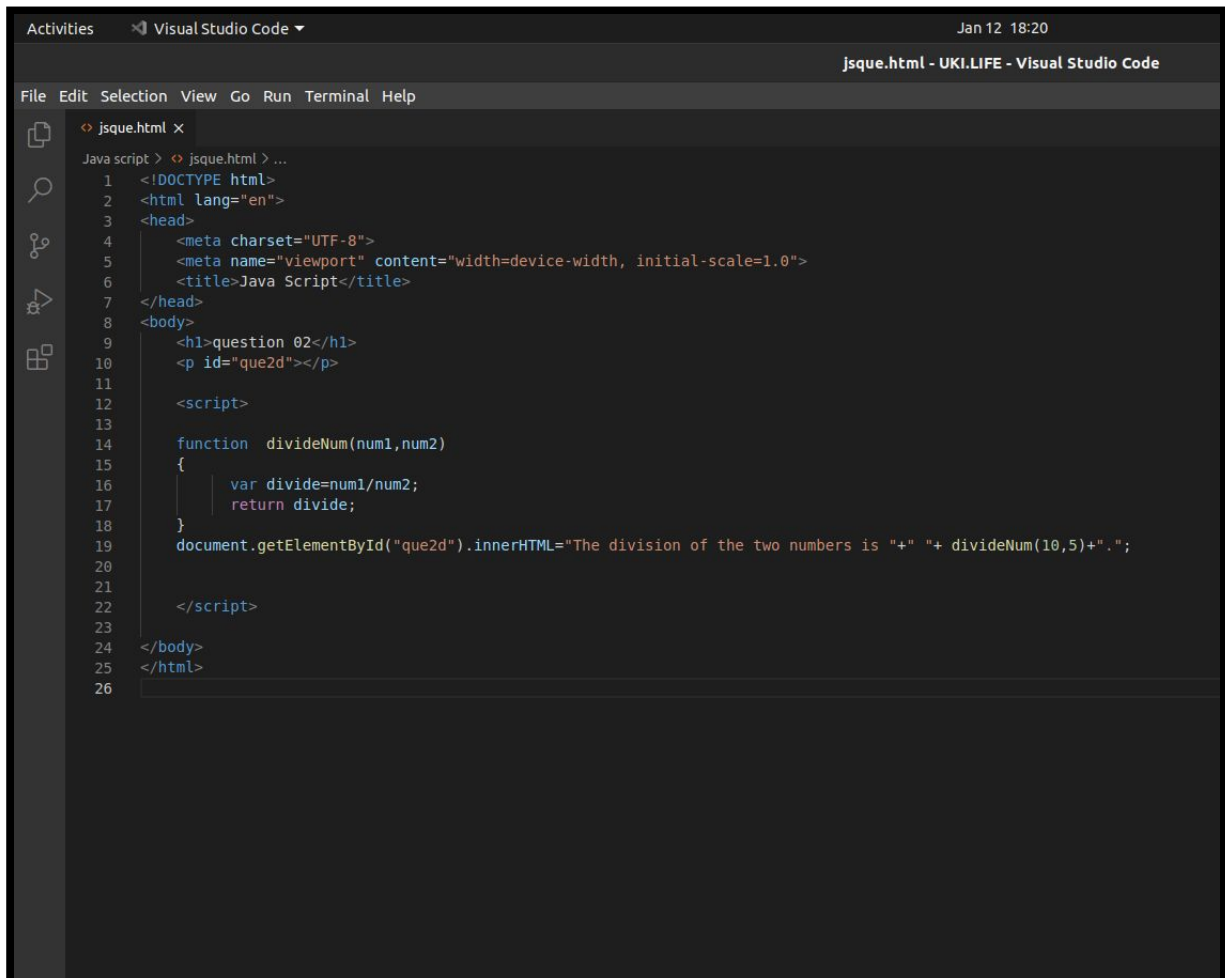
c. Write a function to subtract these two numbers and name the function as subtractNum.

code:

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Java Script</title>
</head>
<body>
    <h1>question 02</h1>
    <p id="que2c"></p>

    <script>
    function  subtractNum(num1,num2)
    {
        var subtr=num1-num2;
        return subtr;
    }
    document.getElementById("que2c").innerHTML="The subtraction of the two numbers is "+" "+ subtractNum(10,5)+".";


    </script>

</body>
</html>
```

d. Write a function to divide these two numbers and name the function as divideNum.

code:

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Java script > <> jsque.html > ...

```html
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4       <meta charset="UTF-8">
5       <meta name="viewport" content="width=device-width, initial-scale=1.0">
6       <title>Java Script</title>
7   </head>
8   <body>
9       <h1>question 02</h1>
10      <p id="que2d"></p>
11
12      <script>
13
14      function  divideNum(num1,num2)
15      {
16          var divide=num1/num2;
17          return divide;
18      }
19      document.getElementById("que2d").innerHTML="The division of the two numbers is "+" "+ divideNum(10,5)+".";
20
21
22      </script>
23
24  </body>
25  </html>
26
```
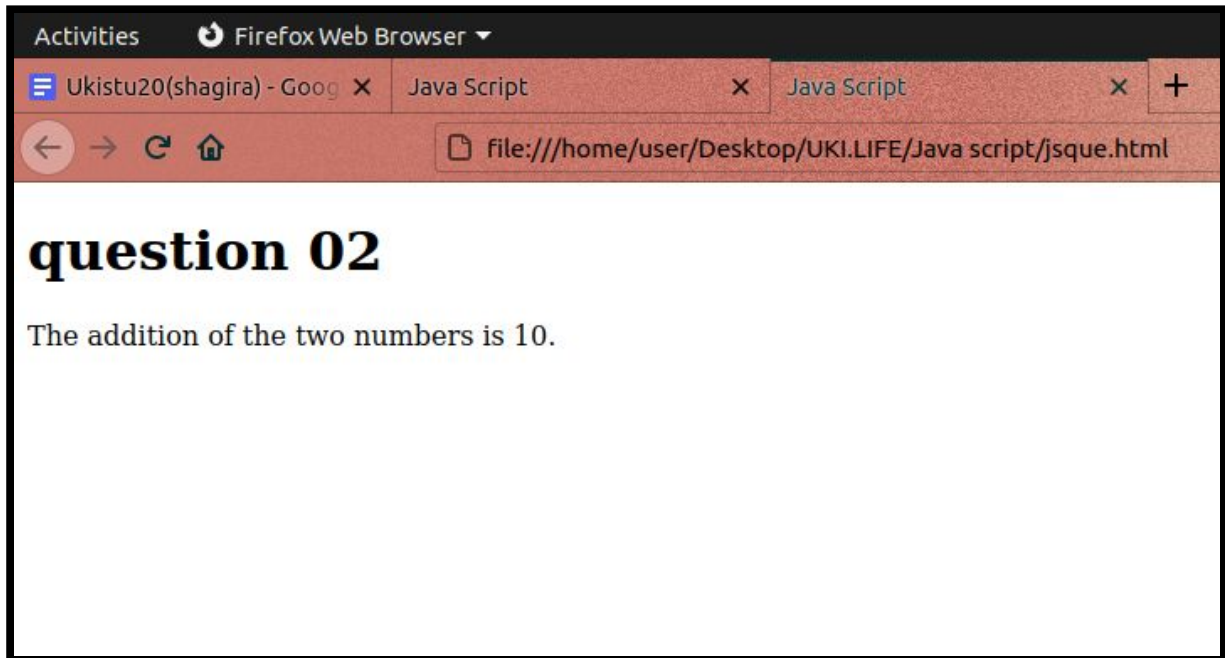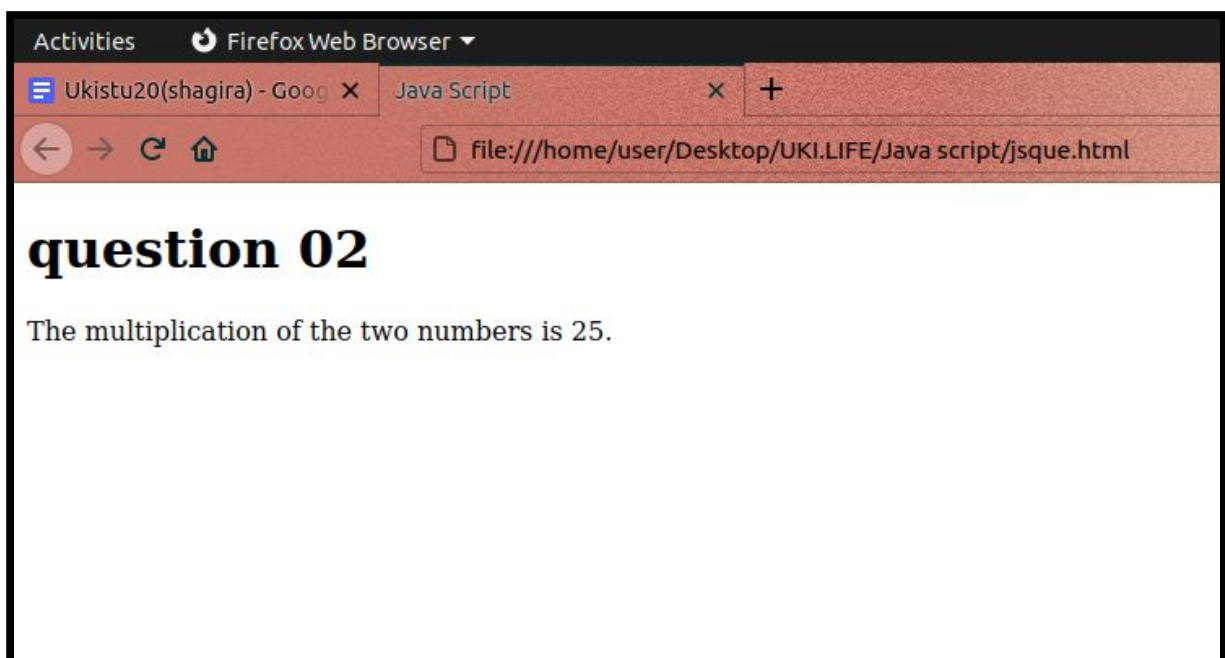
e. The outputs must be like this
i. The addition of the two numbers is output

output:

ii. The multiplication of the two numbers is output
output:

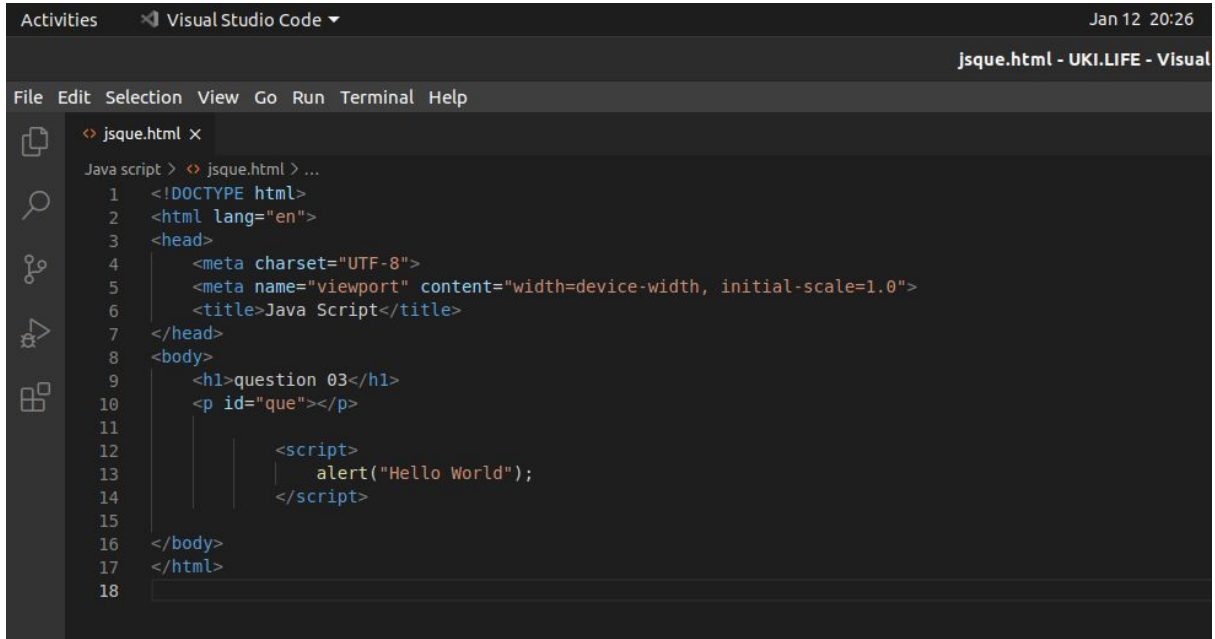## iii. The subtraction of the two numbers is output
Output:

iv. The division of the two numbers is output
Output:

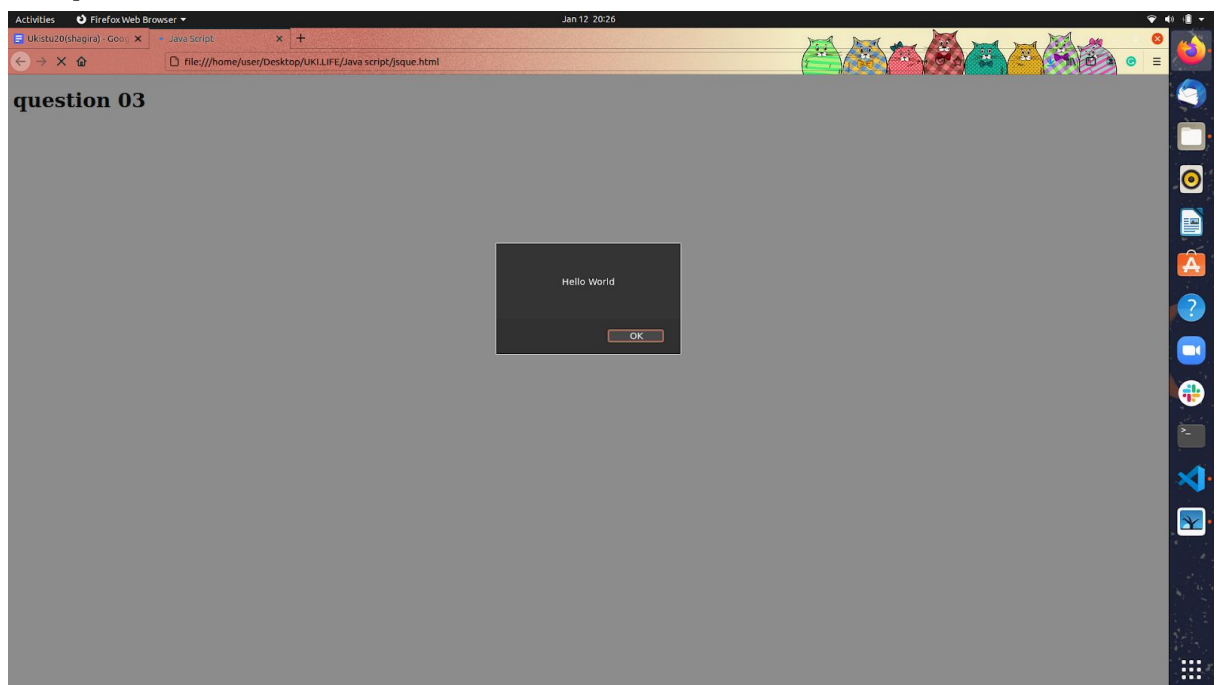# 3. Write a function to print "Hello World" in an alert ?

code:
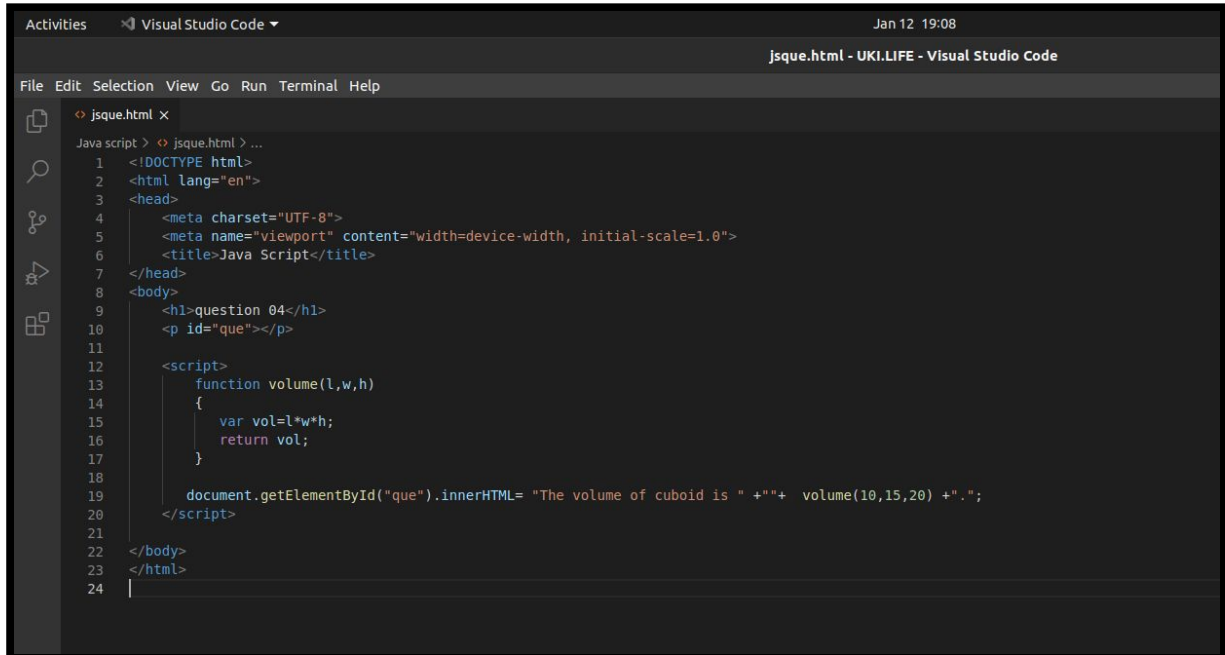
output:

4. Write a function to calculate the volume of a cuboid (Volume=length*width,*height)?

Code:

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Java Script</title>
</head>
<body>
    <h1>question 04</h1>
    <p id="que"></p>

    <script>
        function volume(l,w,h)
        {
            var vol=l*w*h;
            return vol;
        }

        document.getElementById("que").innerHTML= "The volume of cuboid is " +""+  volume(10,15,20) +".";
    </script>

</body>
</html>
```
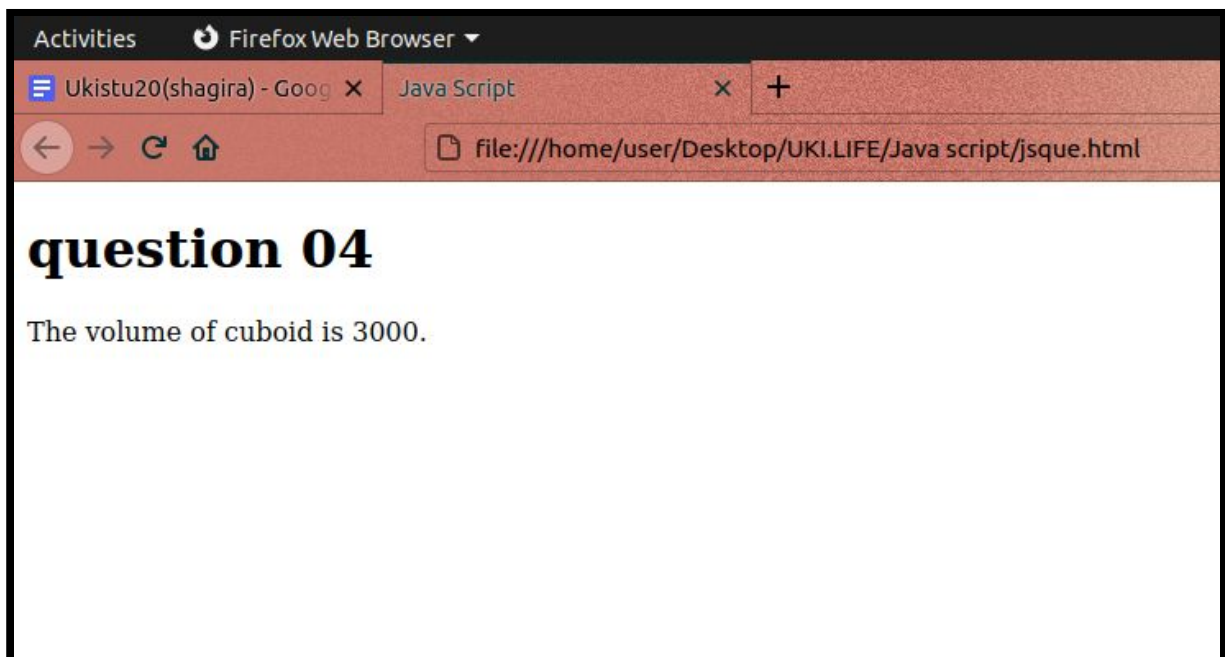
Output:

question 04
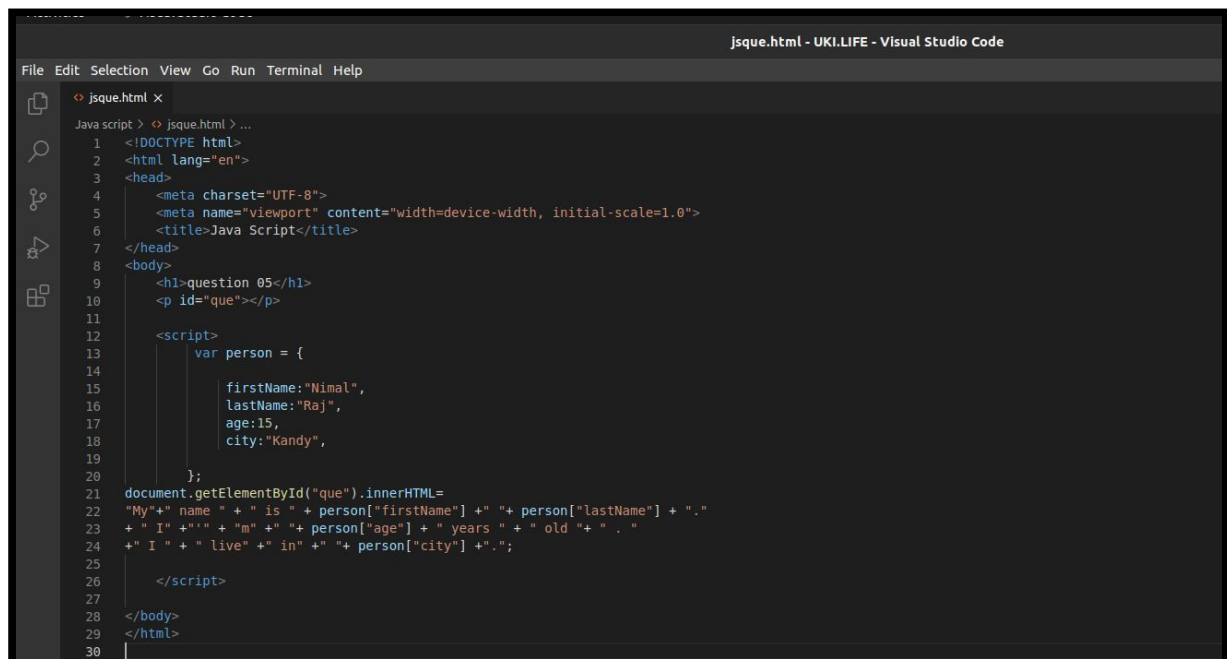
The volume of cuboid is 3000.

5. Create a object (firstName - Nimal , lastName - Raj, age - 15, city - Kandy) and assign it to a variable named person. Write the JS code to have the following output?
Output:
My name is Nimal Raj. I'm 15 years old.I live in Kandy.

code:

```
jsque.html - UKI.LIFE - Visual Studio Code
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<> jsque.html ×

Java script > <> jsque.html > ...
 1   <!DOCTYPE html>
 2   <html lang="en">
 3   <head>
 4       <meta charset="UTF-8">
 5       <meta name="viewport" content="width=device-width, initial-scale=1.0">
 6       <title>Java Script</title>
 7   </head>
 8   <body>
 9       <h1>question 05</h1>
10       <p id="que"></p>
11
12       <script>
13           var person = {
14
15               firstName:"Nimal",
16               lastName:"Raj",
17               age:15,
18               city:"Kandy",
19
20           };
21   document.getElementById("que").innerHTML=
22   "My"+" name " + " is " + person["firstName"] +" "+ person["lastName"] + "."
23   + " I" +"'" + "m" +" "+ person["age"] + " years " + " old "+ " . "
24   +" I " + " live" +" in" +" "+ person["city"] +".";
25
26       </script>
27
28   </body>
29   </html>
30   |
```

output:

Activities   Firefox Web Browser ▾

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question 05

My name is Nimal Raj. I'm 15 years old . I live in Kandy.

6. Create a object (courseName- BIT, courseFee- Rs 150 000, startDate- 12.06.2018, center- Our Office) and assign it to a variable named course. Write the JS code to have the following output?
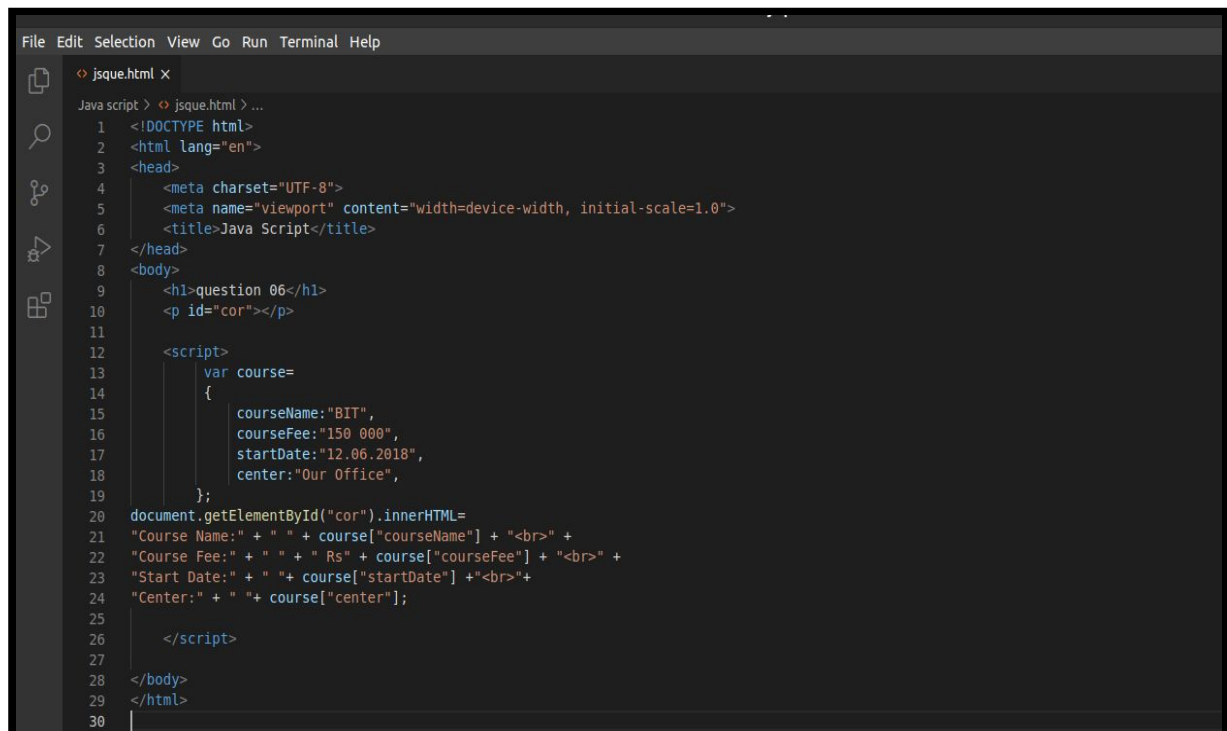**Output:**
Course Name: BIT
Course Fee: Rs 150 000
Start Date: 12.06.2018
Center: Our Office

code:

```
File  Edit  Selection  View  Go  Run  Terminal  Help

    jsque.html ×

Java script > <> jsque.html > ...
  1    <!DOCTYPE html>
  2    <html lang="en">
  3    <head>
  4        <meta charset="UTF-8">
  5        <meta name="viewport" content="width=device-width, initial-scale=1.0">
  6        <title>Java Script</title>
  7    </head>
  8    <body>
  9        <h1>question 06</h1>
 10        <p id="cor"></p>
 11
 12        <script>
 13            var course=
 14            {
 15                courseName:"BIT",
 16                courseFee:"150 000",
 17                startDate:"12.06.2018",
 18                center:"Our Office",
 19            };
 20    document.getElementById("cor").innerHTML=
 21    "Course Name:" + " " + course["courseName"] + "<br>" +
 22    "Course Fee:" + " " + " Rs" + course["courseFee"] + "<br>" +
 23    "Start Date:" + " "+ course["startDate"] +"<br>"+
 24    "Center:" + " "+ course["center"];
 25
 26        </script>
 27
 28    </body>
 29    </html>
 30    |
```
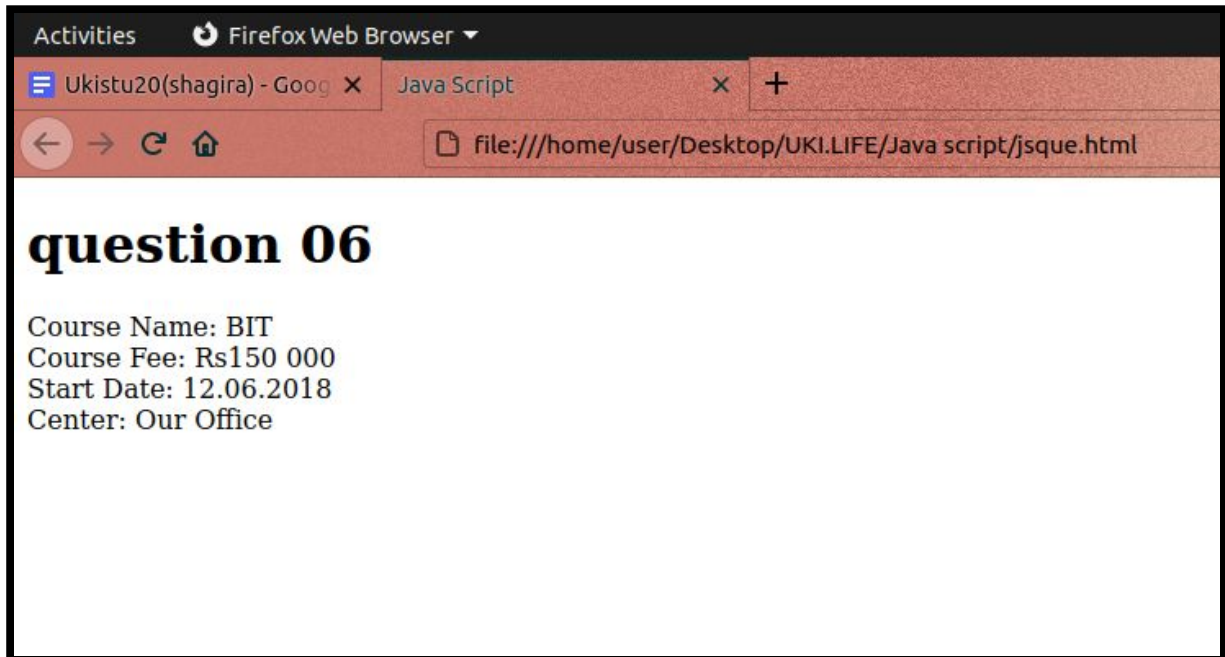
output:

question 06

Course Name: BIT
Course Fee: Rs150 000
Start Date: 12.06.2018
Center: Our Office

THANK YOU