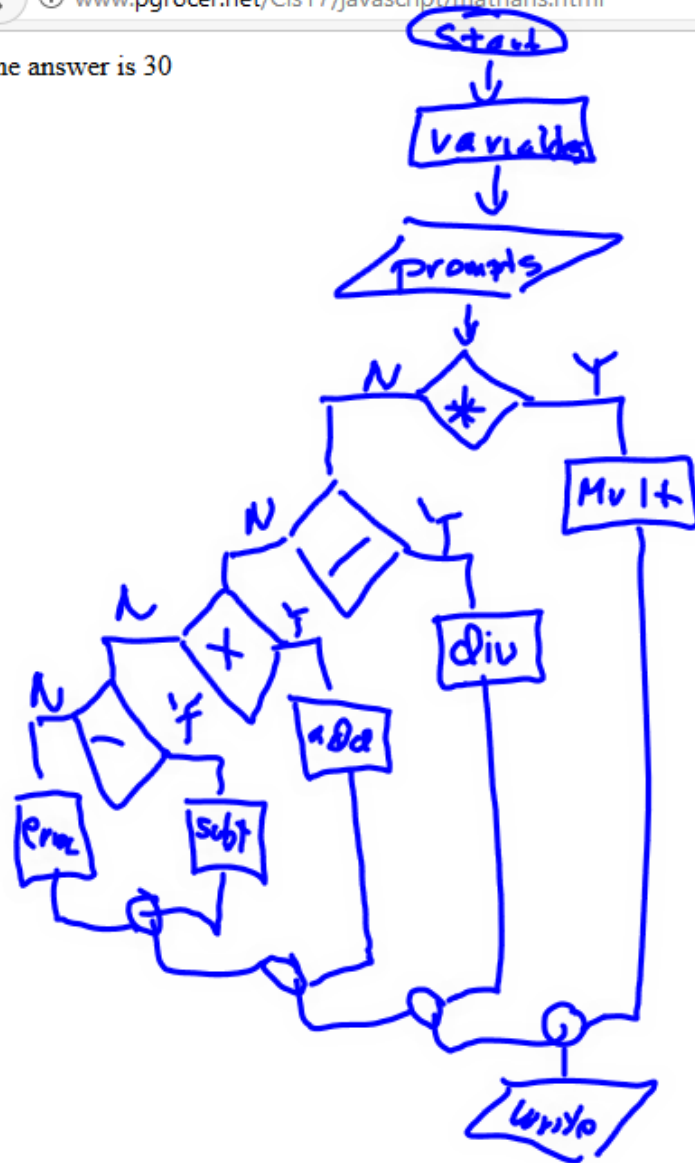


The answer is 30



Untitled - Notepad

```

<html>
<script type="text/javascript">
var ans = 0;
var firstnum = 0;
var secondnum = 0;
var whattodo;
firstnum = prompt("Enter the first number",0);
secondnum = prompt("Enter the second number",0);
whattodo = prompt("Enter * or /","");
if (whattodo == "*")
{
  ans = firstnum * secondnum;
}
else
{
  ans = firstnum / secondnum;
}
document.write("The answer is ", ans);
</script>
</html>

```

I am going to change this program to handle addition and subtraction as well.

File Edit View History Bookmarks Tools Help

pgrocer.net/Cis17/javascript/ma X +

www.pgrocer.net/Cis17/javascript/mathans.html

The answer is 30

Start

Variables

Prompts

== test for equal

= assign

Mult

Div

add

sub

error

Write

Untitled - Notepad SMART Ink

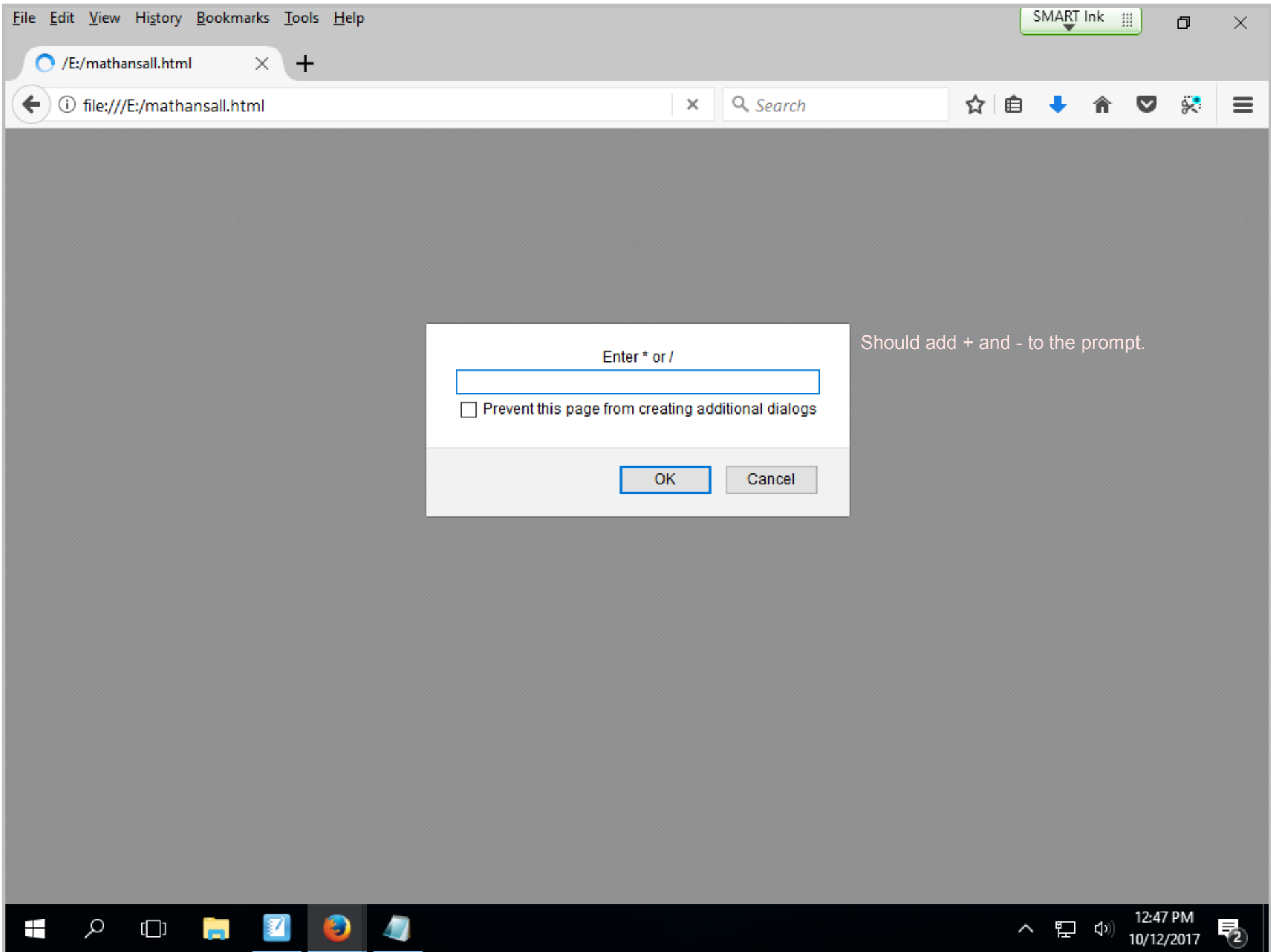
File Edit Format View Help

```

if (whattodo == "*")
{
ans = firstnum * secondnum;
}
else
{
if (whattodo == "/")
{
ans = firstnum / secondnum;
}
else
{
if (whattodo == "+")
{
ans = parseFloat(firstnum) + parseFloat(secondnum);
}
else
{
if (whattodo == "-")
{
ans = firstnum - secondnum;
}
else
{
ans = "error";
}
}
}
}
}

```

I did not put in == in the subtract so this has to be fixed.



The image shows a Windows desktop environment. On the left, a web browser window is open to a file named `mathansall.html`. The browser's address bar shows `file:///E:/mathansall.html`. The page content displays the text "The answer is 8".

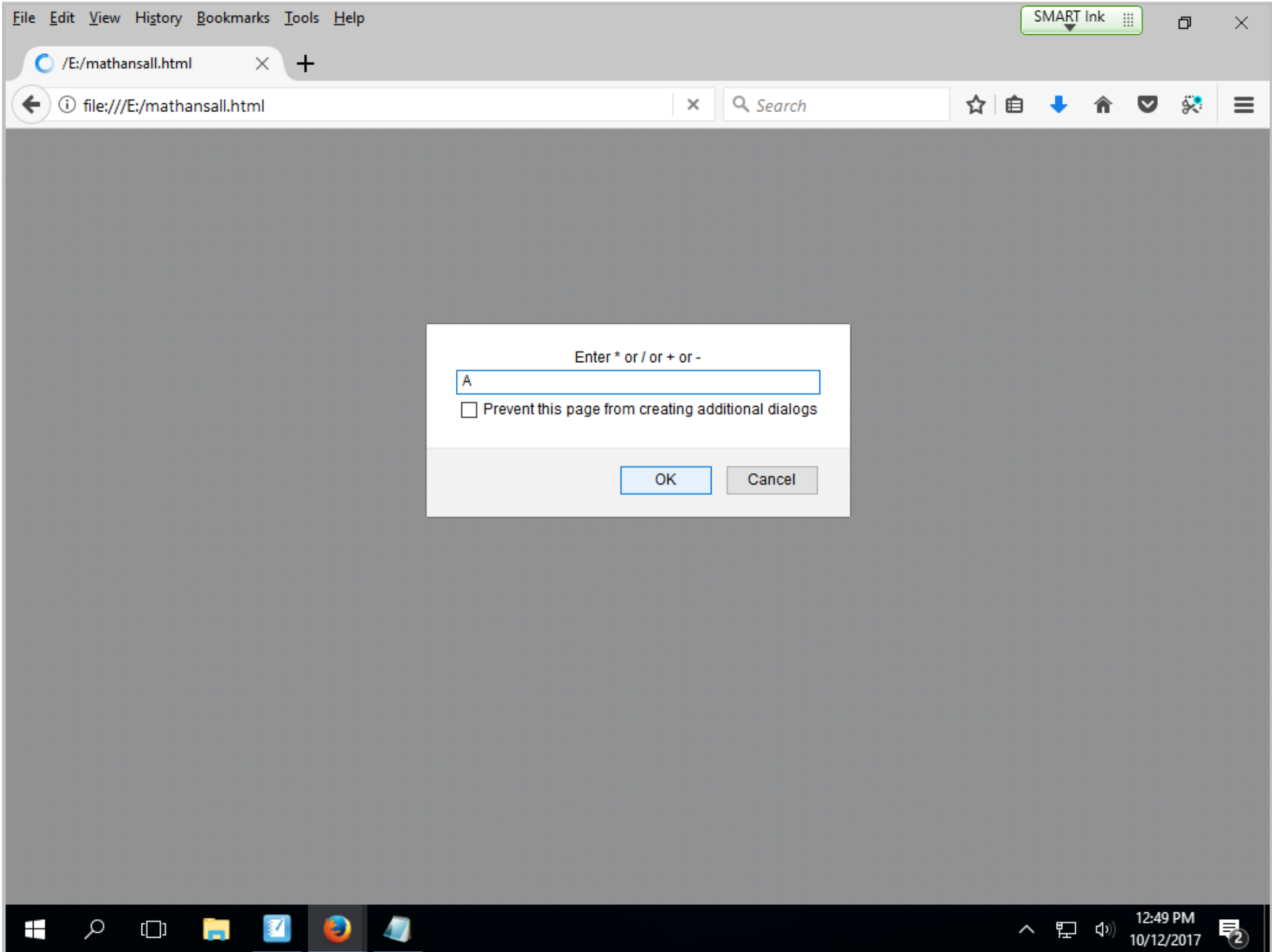
Overlaid on the browser is a Notepad window titled "mathansall - Notepad". The Notepad window contains the following JavaScript code:

```
{
  if (whattodo == "+")
  {
    ans = parseFloat(firstnum) + parseFloat(secondnum);
  }
  else
  {
    if (whattodo = "-")      Still need to change = to ==
    {
      ans = firstnum - secondnum;
    }
    else
    {
      ans = "error";
    }
  }
}
```

Below the code block, the Notepad window contains the following HTML/JavaScript code:

```
document.write("The answer is ", ans);
</script>
</html>
```

The Windows taskbar at the bottom shows the system tray with the time 12:48 PM and date 10/12/2017. The taskbar also contains icons for the Start menu, search, task view, File Explorer, Notepad, and Internet Explorer.



File Edit View History Bookmarks Tools Help

SMART Ink

/E:/mathansall.html

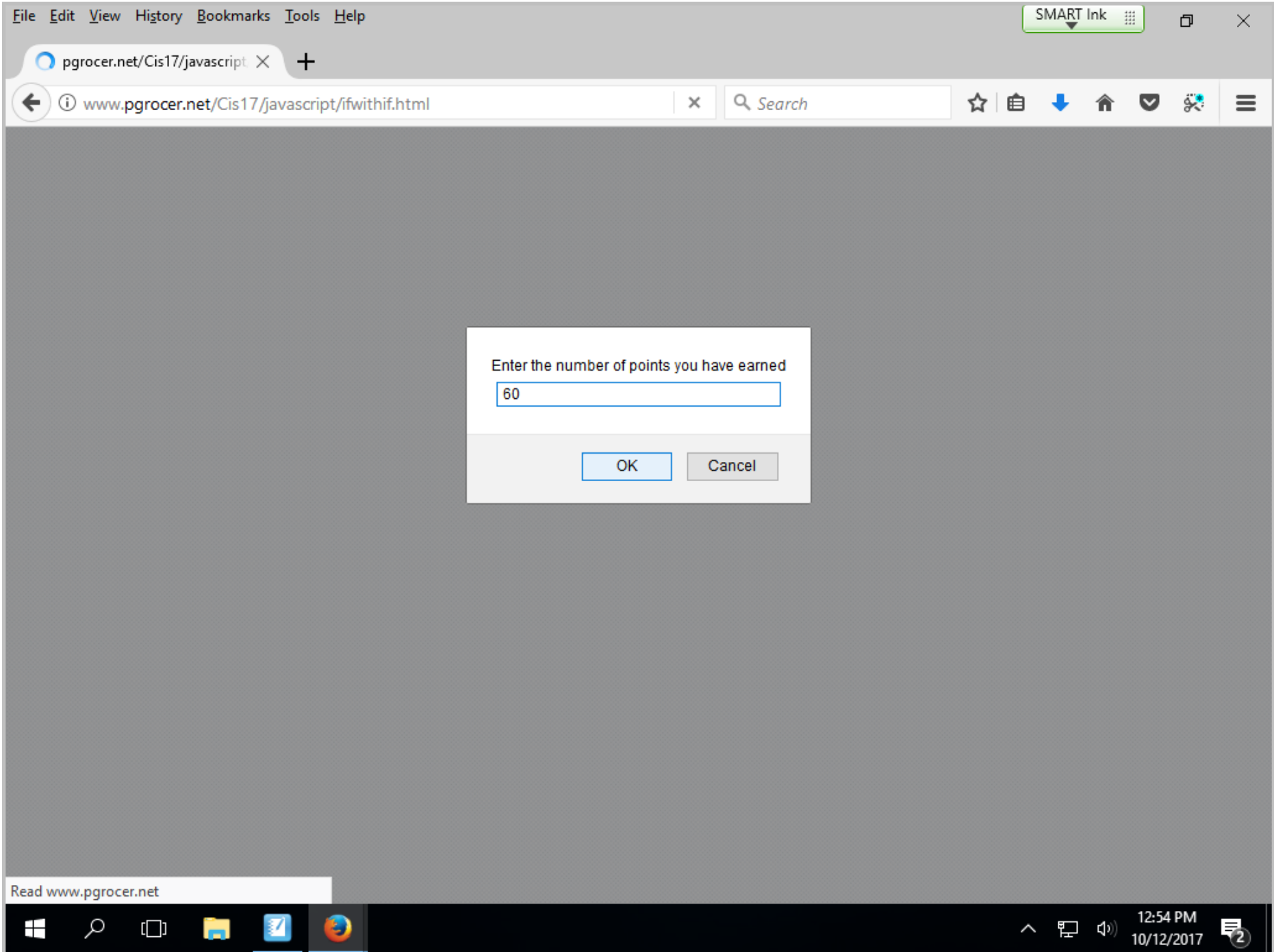
file:///E:/mathansall.html

The answer is error

```
mathansall - Notepad
<script>
function solve(a,b,c)
{
    if (a+b+c == "0")
    {
        ans = parseInt(a) + parseInt(b) + parseInt(c);
    }
    else
    {
        if (a+b+c == "1")
        {
            ans = 1/a + 1/b + 1/c;
        }
        else
        {
            ans = "error";
        }
    }
}

document.write("The answer is ", ans);
</script>
</html>
```

12:52 PM 10/12/2017



File Edit View History Bookmarks Tools Help

SMART Ink

pgrocer.net/Cis17/javascript/ifu X +

www.pgrocer.net/Cis17/javascript/ifuwithif.html

You can choose a prize from group A

```
graph TD; D1{< 10}; D2{<= 50}; A[A]; B[B]; Merge(( )); Write[/write/]; D1 -- N --> Not[Not]; D1 -- Y --> D2; D2 -- N --> A; D2 -- Y --> B; A --> Merge; B --> Merge; Merge --> Write;
```

Untitled - Notepad

File Edit Format View Help

```
<html>
<script type="text/javascript">
var myPoints;
var msg;
myPoints = prompt("Enter the number of points you have earned",0);
if (myPoints < 10)
{
    msg = "Not enough points for a prize";
}
else
{
    if (myPoints <= 50)
    {
        msg = "You can choose a prize from group B";
    }
    else
    {
        msg = "You can choose a prize from group A";
    }
}
document.write(msg);
</script>
</html>
```

60
upto 9
10 and over

12:59 PM
10/12/2017

File Edit View History Bookmarks Tools Help

JavaScript guess number game X http://www.pgrocer.net/Cis17/ja X +

www.pgrocer.net/Cis17/javascript/MAorRI.html

Ann you live in MA

Untitled - Notepad

File Edit Format View Help

```
<html>
<head>
<title>JavaScript guess number game</title>
</head>
<body>
<script type="text/javascript">
    var theName = window.prompt("Enter your name","");
    var theState = window.prompt("enter the state","");
    if (theState == "MA" || theState == "RI")
    {
        document.write(theName + " you live in " + theState, "<br>" );
    }
    else
    {
        document.write(theName + " you do not live in MA or RI <br>" );
    }
</script>
</body>
</html>
```

|| OR

1:02 PM
10/12/2017

File Edit View History Bookmarks Tools Help

JavaScript guess number game X http://www.pgrocer.net/Cis17/ja X +

www.pgrocer.net/Cis17/javascript/MAorRI.html

Ann you live in MA

```
graph TD
    subgraph Table [OR]
        direction TB
        R1["N | Y | Y"]
        R2["Y | N | Y"]
        R3["Y | Y | Y"]
        R4["N | N | N"]
    end
```

OR

live in MA

live in RI

not

live in

Untitled - Notepad

File Edit Format View Help

```
<html>
<head>
<title>JavaScript guess number game</title>
</head>
<body>
<script type="text/javascript">
    var theName = window.prompt("Enter your name","");
    var theState = window.prompt("enter the state","");
    if (theState == "MA" || theState == "RI")
    {
        document.write(theName + " you live in " + theState, "<br>" );
    }
    else
    {
        document.write(theName + " you do not live in MA or RI <br>" )
    }
</script>
</body>
</html>
```

|| OR

1:07 PM 10/12/2017

File Edit View History Bookmarks Tools Help

JavaScript guess number game x http://www.pgrocer.net/Cis17/ja x +

www.pgrocer.net/Cis17/javascri MAorRI - Notepad SMART Ink

File Edit Format View Help

Ann you live in MA

```
<html>
<head>
<title>JavaScript guess number game</title>
</head>
<body>
<script type="text/javascript">
  var theName = window.prompt("Enter your name","");
  var theState = window.prompt("enter the state","");
  if (theState == "MA")
  {
    document.write(theName + " you live in " + theState, "<br>" );
  }
  else
  {
    if (theState == "RI")
    {
      document.write(theName + " you live in " + theState, "<br>" );
    }
    else
    {
      document.write(theName + " you do not live in MA or RI <br>" );
    }
  }
</script>
</body>
```

Windows taskbar: 1:14 PM 10/12/2017

The image shows a web browser window on the left and a Notepad window on the right. The browser window displays the output of a JavaScript program: "Testing for MA or RI", "Ann you do not live in MA or RI", and "Good bye". The Notepad window shows the source code of the program, which prompts the user for their name and state, and then checks if they live in MA or RI.

Browser Window:

- Address bar: file:///E:/MAorRI.html
- Page Title: JavaScript guess number game
- Content:

Testing for MA or RI

Ann you do not live in MA or RI

Good bye

Notepad Window (MAorRI - Notepad):

```
<html>
<head>
<title>JavaScript guess number game</title>
</head>
<body>
<h1>Testing for MA or RI</h1>
<script type="text/javascript">
  var theName = window.prompt("Enter your name","");
  var theState = window.prompt("enter the state","");
  if (theState == "MA")
  {
    document.write(theName + " you live in " + theState, "<br>" );
  }
  else
  {
    if (theState == "RI")
    {
      document.write(theName + " you live in " + theState, "<br>" );
    }
    else
    {
      document.write(theName + " you do not live in MA or RI <br>" );
    }
  }
</script>
<h1>Good bye</h1>
</body>
</html>
```

The image shows a Windows desktop environment. On the left, a web browser window displays the rendered output of an HTML file. The browser's address bar shows the file path: `file:///E:/MAorRI.html`. The page content includes a title "Testing for MA or RI", a message "David you live in MA Good bye world", and a large heading "Good bye".

On the right, a Notepad window titled "MAorRI - Notepad" displays the source code for the HTML file. The code is as follows:

```
<html>
<head>
<title>JavaScript guess number game</title>
</head>
<body>
<h1>Testing for MA or RI</h1>
<script type="text/javascript">
  var theName = window.prompt("Enter your name","");
  var theState = window.prompt("enter the state","");
  if (theState == "MA")
  {
    document.write(theName + " you live in " + theState, "<br>" );
  }
  else
  {
    if (theState == "RI")
    {
      document.write(theName + " you live in " + theState, "<br>" );
    }
    else
    {
      document.write(theName + " you do not live in MA or RI <br>" );
    }
  }
  document.write("Good bye world");
</script>
<h1>Good bye</h1>
</body>
```

File Edit View History Bookmarks Tools Help

JavaScript guess number game X +

www.pgrocer.net/Cis17/javascript/prob

Mary you do not meet the criteria

```
<html>
<head>
<title>JavaScript guess number game</title>
</head>
<body>
<script type="text/javascript">
  var theName = window.prompt("Enter your name","");
  var yrBirth = parseInt(window.prompt("enter the year of birth",0));
  var marStat = window.prompt("enter your marital status","");
  if (yrBirth > 1980 && marStat == "M")
  {
    document.write(theName + " you meet the criteria <br>" );
  }
  else
  {
    document.write(theName + " you do not meet the criteria <br>" );
  }
</script>
</body>
</html>
```

MAorRI - Notepad

File Edit Format View Help

SMART Ink

SMART Ink

AND

AND

not

not

meet

7/1980

M

not

meet

1:23 PM 10/12/2017

File Edit View History Bookmarks Tools Help

JavaScript guess number game

www.pgrocer.net/Cis17/javascript/p

Mary you do not meet the criteria

```
<html>
<head>
<title>JavaScript guess number game</title>
</head>
<body>
<script type="text/javascript">
  var theName = window.prompt("Enter your name","");
  var yrBirth = parseInt(window.prompt("enter the year of birth",0));
  var marStat = window.prompt("enter your marital status","");
  if (yrBirth > 1980)
  {
    if (marStat == "M")
    {
      document.write(theName + " you meet the criteria <br>" );
    }
    else
    {
      document.write(theName + " you do not meet the criteria <br>" );
    }
  }
  else
  {
    document.write(theName + " you do not meet the criteria <br>" );
  }
</script>
</body>
</html>
```

SMART Ink

MAorRI - Notepad

File Edit Format View Help

82 AND

Windows taskbar: 1:31 PM 10/12/2017

The image shows a Windows desktop environment. In the foreground, a Notepad window titled 'andone - Notepad' is open, displaying the following HTML and JavaScript code:

```
<html>
<head>
<title>JavaScript guess number game</title>
</head>
<body>
<script type="text/javascript">
  var theName = window.prompt("Enter your name","");
  var yrBirth = parseInt(window.prompt("enter the year of birth",0));
  var marStat = window.prompt("enter your marital status","");
  if (yrBirth > 1980)
  {
    if (marStat == "M")
    {
      document.write(theName + " you meet the criteria <br>" );
    }
    else
    {
      document.write(theName + " you do not meet the criteria <br>" );
    }
  }
  else
  {
    document.write(theName + " you do not meet the criteria <br>" );
  }
</script>
</body>
</html>
```

Handwritten in blue ink next to the title tag is the text "S&AND".

In the background, a web browser window is open to 'file:///E:/andone.html'. The browser's address bar shows the file path. The page content displays the text: "Susan you do not meet the criteria".

The Windows taskbar at the bottom shows the system tray with the time 1:32 PM and date 10/12/2017.

Problem #5: You need to calculate an employees pay. To do this you will need to take in the following four inputs:

1. the number of hours the employee worked **50**
2. the number of hours the employee is contracted to work before the employee receives overtime (for example, the employee might be contracted to work 40 hours and only receives overtime for hours over 40) **40**
3. the pay per hour **20**
4. the rule for calculating over time (time and one half would be 1.5 while double time would be 2) **2**

As part of the code you write, you should ask a question to determine if the employee worked over their contracted hours and then calculate the appropriate pay. Test this problem with information about an employee who did not work over their contracted hours and again for an employee who did work over their contracted hours. See if they both work.

$$\begin{array}{r} \text{req pay } 800 \\ \text{out pay } 400 \\ \hline 1200 \end{array}$$