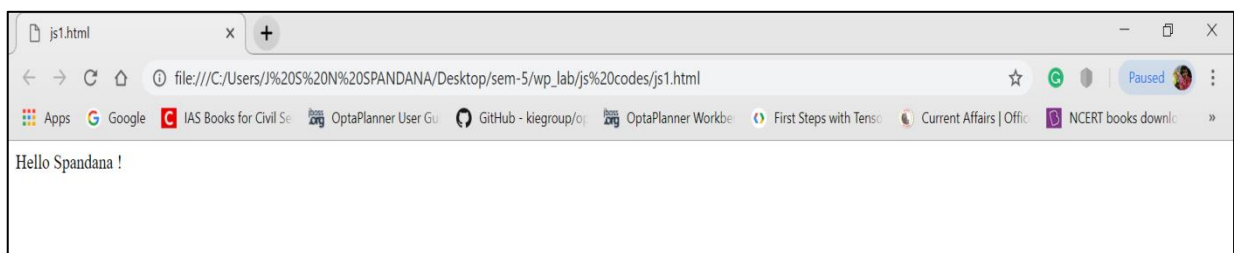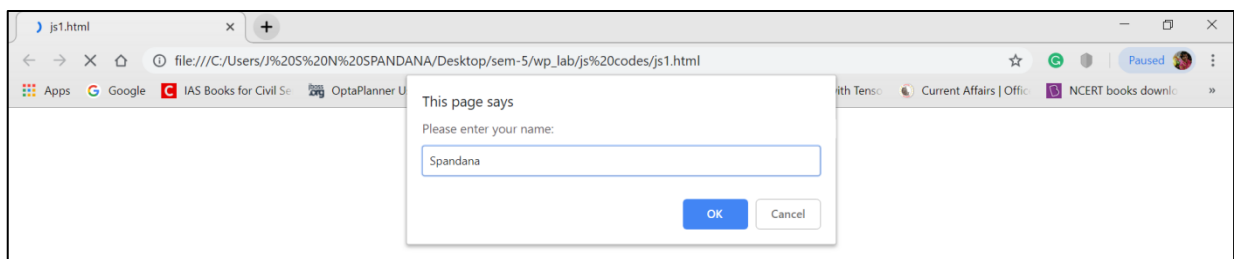**1. Create a script that asks the user for a name, then greets the user with "Hello" and the user name on the page.**

```html
<html>
     <body>
          <p id="namedisp"></p>
          <script>
               var name=prompt("Please enter your name: ");
               if(name!=null){
                    document.getElementById("namedisp").innerHTML="Hello
                    "+name+" !";}
          </script>
     </body>
</html>
```
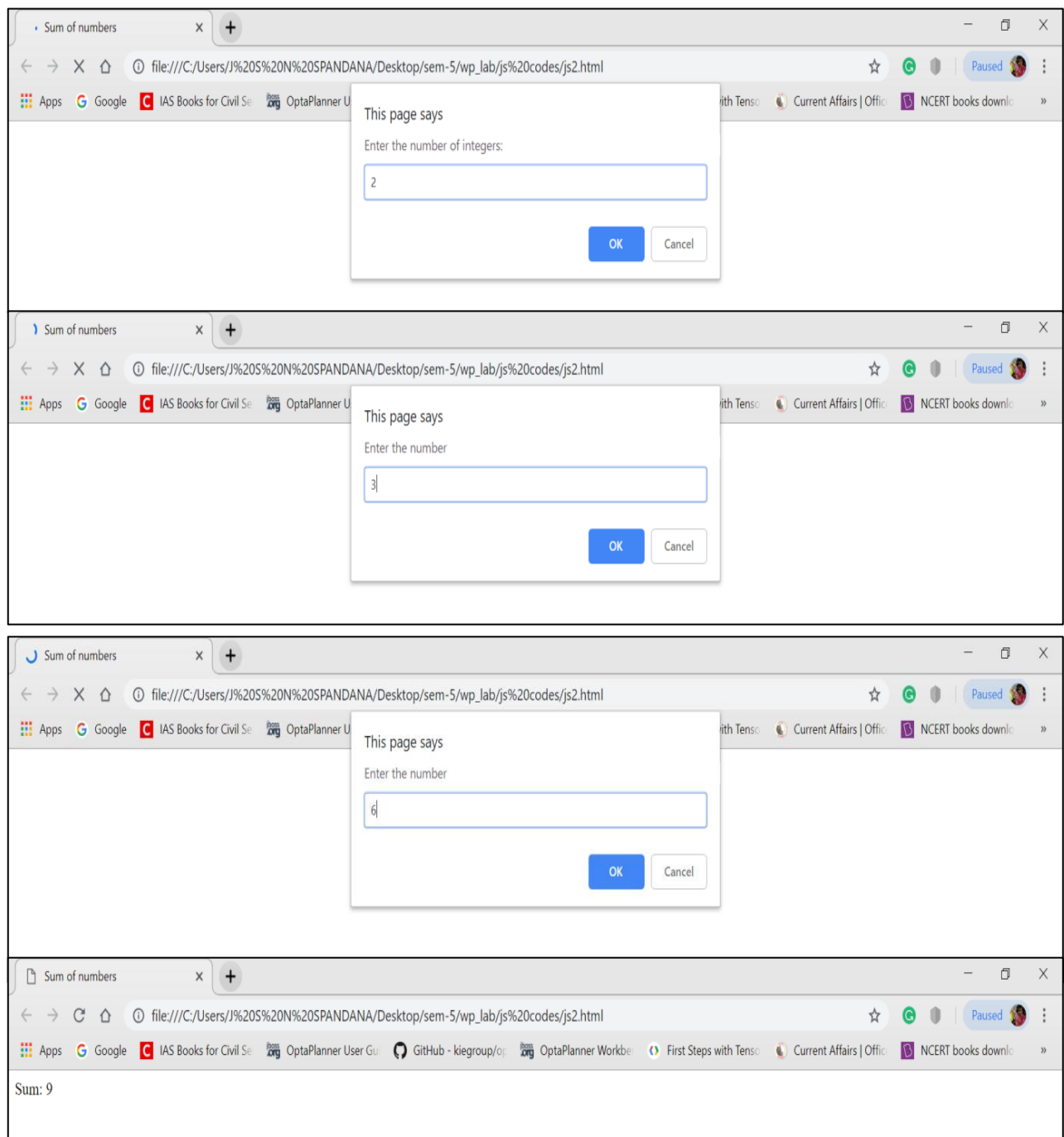




---

**2. Create a script that collects numbers from a page and then adds them up and prints them to a blank field on the page.**

```html
<html>
     <head>
          <title>Sum of numbers</title>
     </head>
     <body>
          <p id="sumdisp"></p>
          <script>
               var n,i,sum=0,x;
               n=prompt("Enter the number of integers: ");
               for(i=0;i<n;i++)
               {
```

```
                         x=Number(prompt("Enter the number ",i+1));
                         sum+=x;
              }
              document.getElementById("sumdisp").innerHTML="Sum: "+sum;
         </script>
    </body>
</html>
```
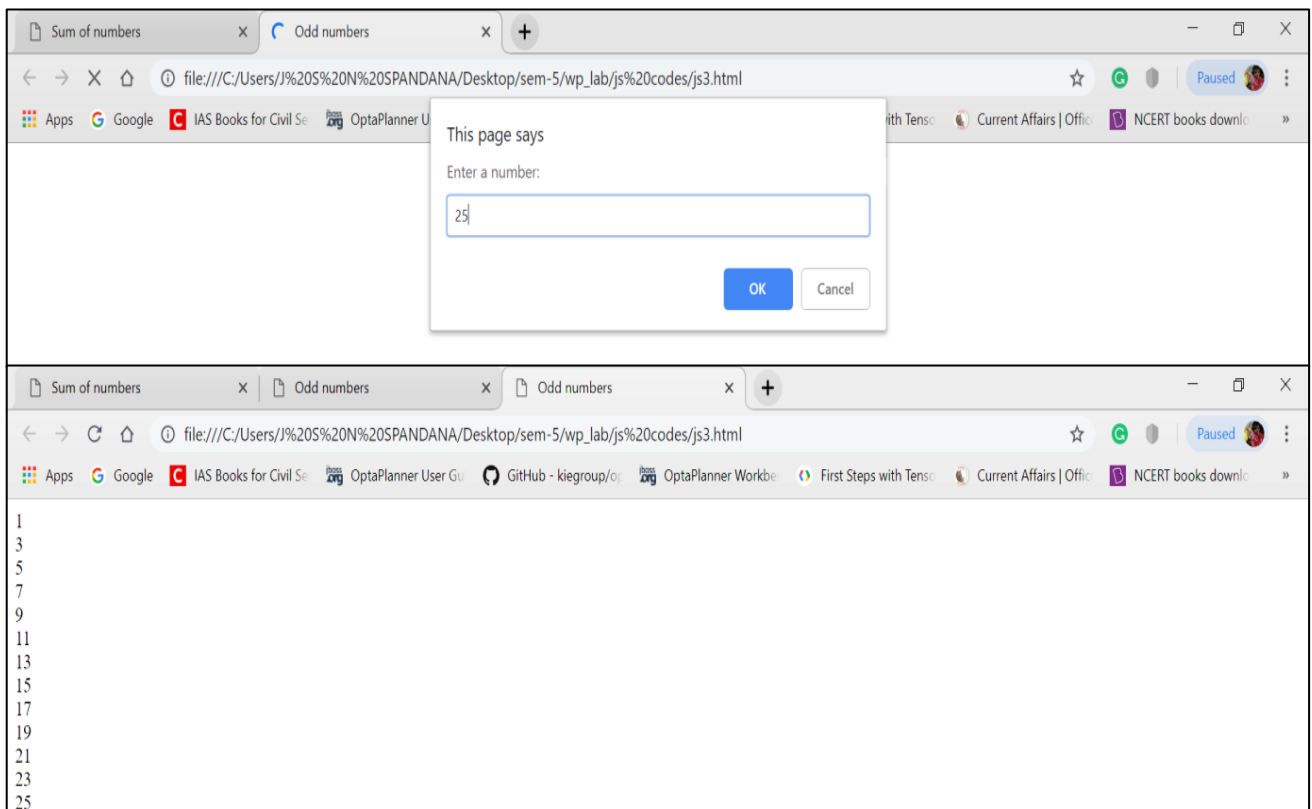
**3. Create a script that prompts the user for a number and then counts from 1 to that number displaying only the odd numbers.**

```html
<html>
        <head>
                <title>Odd numbers</title>
        </head>
        <body>
                <script>
                        var n=Number(prompt("Enter a number: "));
                        var flag;
                        for(var j=1;j<=n;j++)
                        {
                                if(j%2==1)
                                {
                                        document.write(j);
                                        document.write("<br>");
                                }
                        }
                </script>
        </body>
</html>
```

**4. Create a script that will check the field for data and alert the user if it is blank. This script should run from a button.**

```html
<html>
    <body>
        <script>
            function myfunc()
            {
                var n=document.getElementById("check").value;
                if(n=="")
                    alert("Please enter your name!");
            }
        </script>
        Name: <input type="text" id="check"><br><br>
        <button onClick="myfunc()">Click me!</button>
    </body>
</html>
```



---
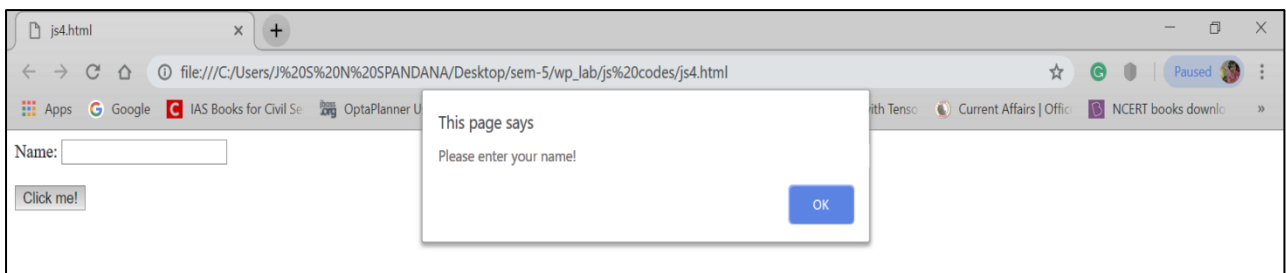
**5. Write a JavaScript function to get nth largest element from an unsorted array.**

```html
<html>
    <head>
        <title>Largest number</title>
    </head>
    <body>
        <script>
            var k=Number(prompt("Enter the number of array numbers: "));
            var num=[];
            var t;
            for(var i=0;i<k;i++)
            {
                t=i+1;
                num[i]=Number(prompt("Enter number"+t+" :"));
            }
            num.sort();
```
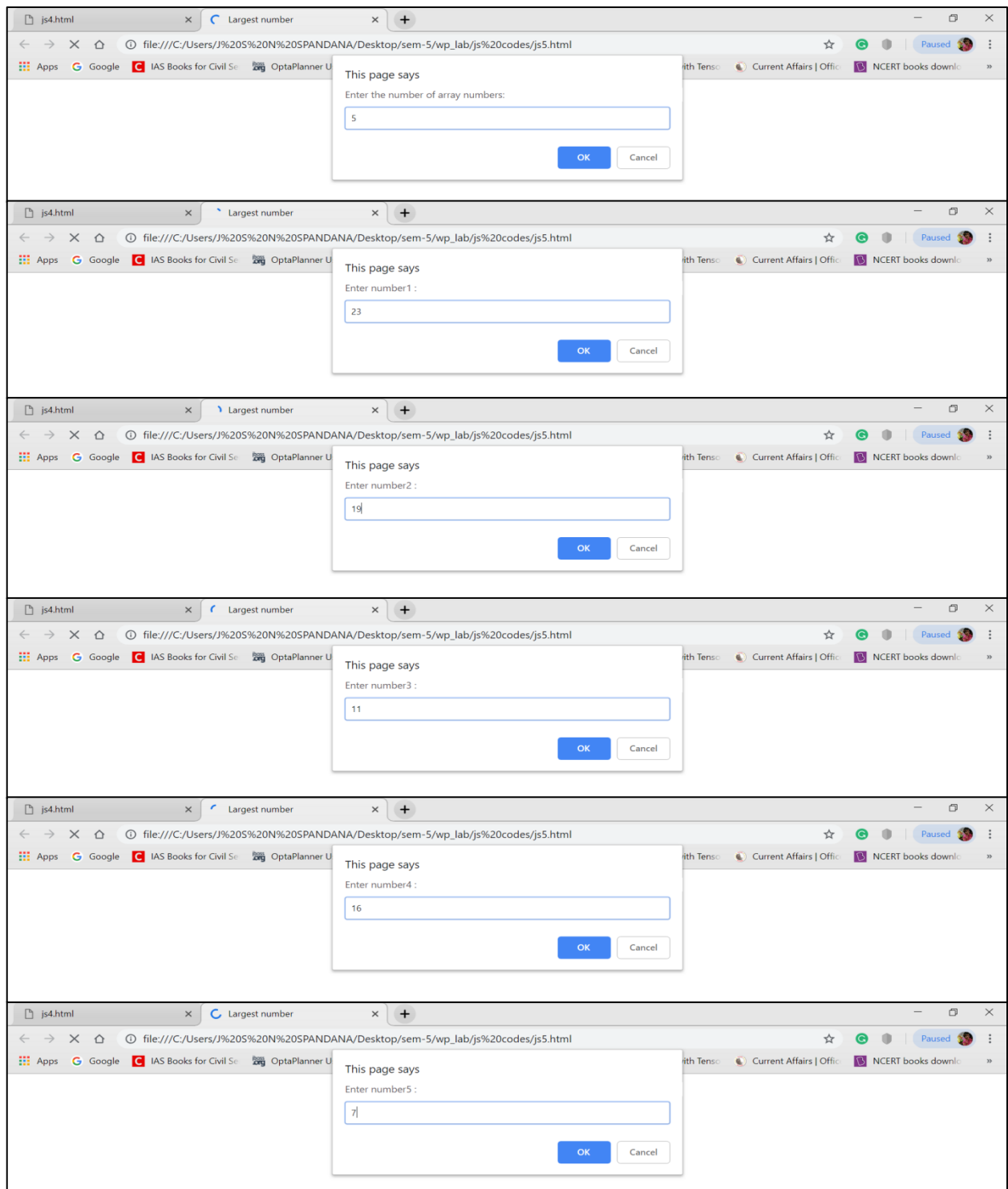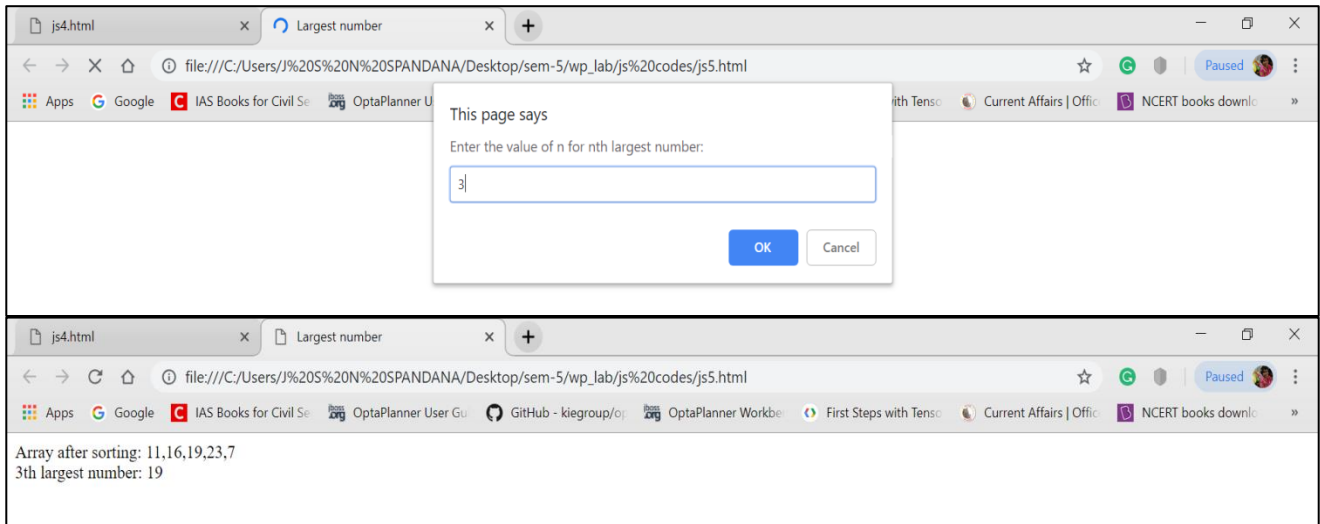
```
document.write("Array after sorting: ",num);
document.write("<br>");
var x=Number(prompt("Enter the value of n for nth largest number:
"));
document.write(x+"th largest number: ",num[x-1]);
        </script>
    </body>
</html>
```
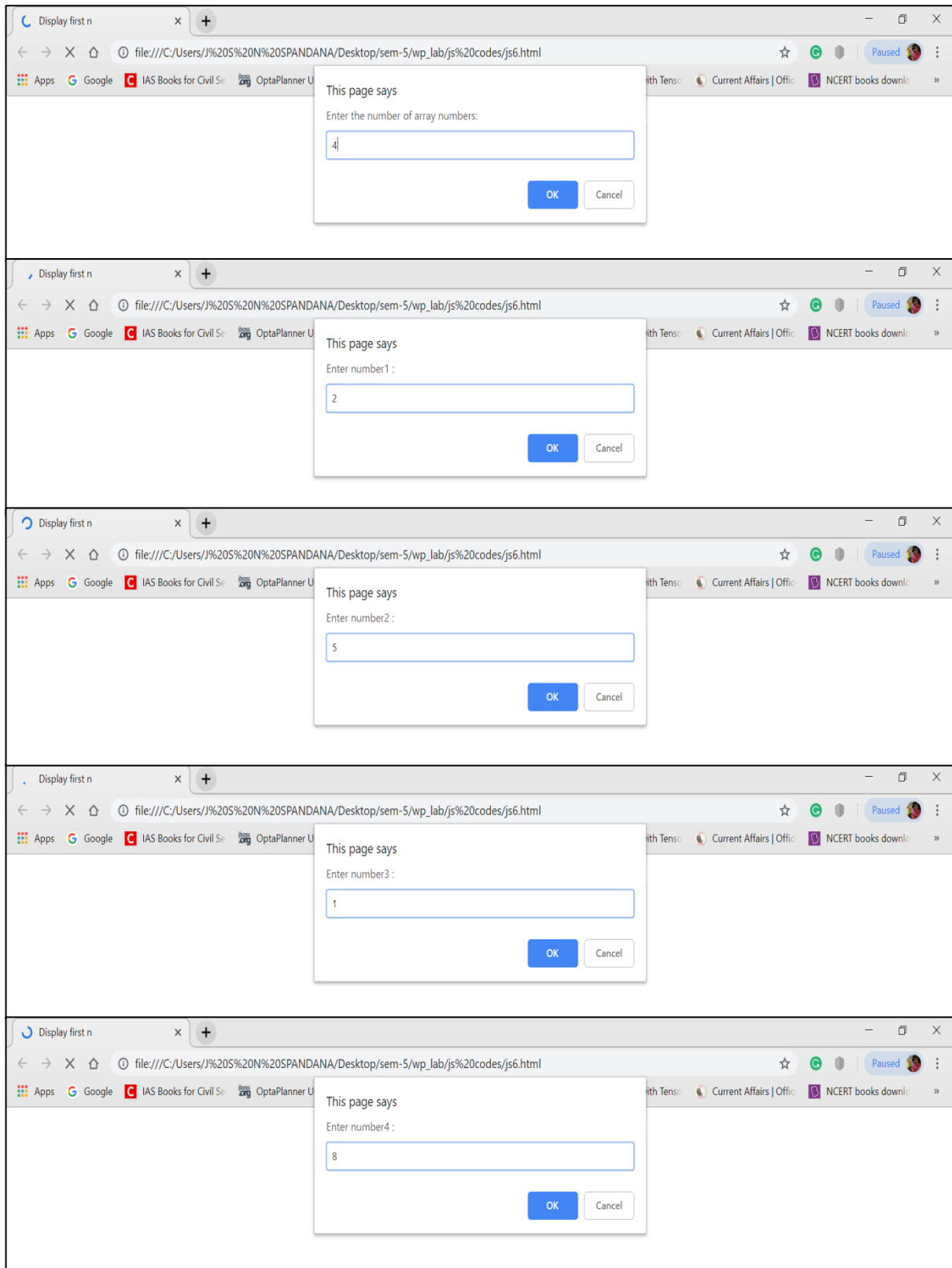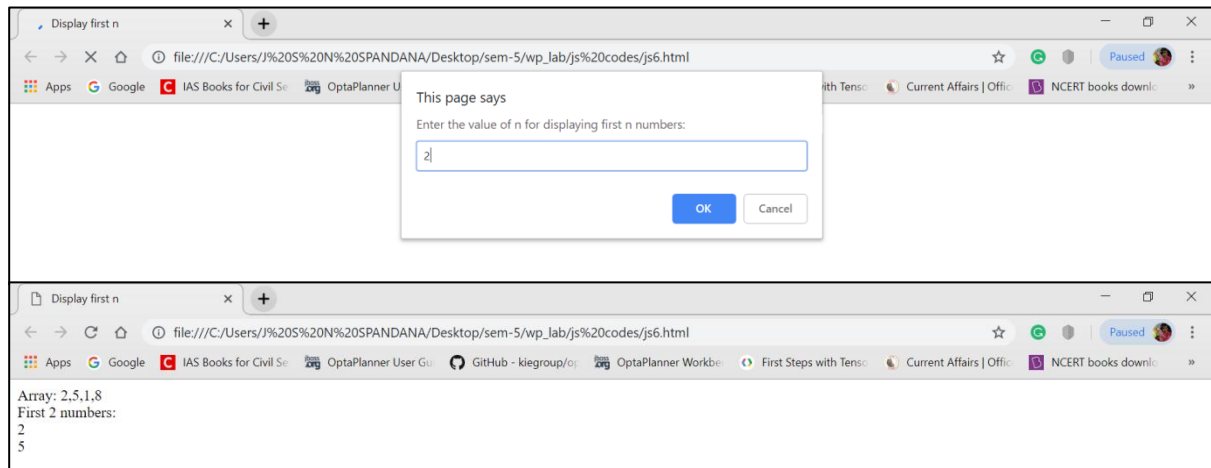
Array after sorting: 11,16,19,23,7
3th largest number: 19

---

**6. Write a JavaScript function to get the first element of an array. Passing a parameter 'n' will return the first 'n' elements of the array.**

```
<html>
    <head>
        <title>Display first n</title>
    </head>
    <body>
        <script>
            var k=Number(prompt("Enter the number of array numbers: "));
            var num=[];
            var t;
            for(var i=0;i<k;i++)
            {
                t=i+1;
                num[i]=Number(prompt("Enter number"+t+" :"));
            }
            document.write("Array: ",num);
            function myfunc(j)
            {
                document.write("<br>First "+j+" numbers:<br>");
                for(var i=0;i<j;i++)
                {
                    document.write(num[i]);
                    document.write("<br>");
                }
            }
            var x=Number(prompt("Enter the value of n for displaying first n
            numbers: "));
```

```
                                myfunc(x);
                        </script>
                </body>
        </html>
```

Array: 2,5,1,8
First 2 numbers:
2
5

---

**7. Write a JavaScript program to compute the sum and product of an array of integers.**

```html
<html>
        <head>
                <title>Sum and Product</title>
        </head>
        <body>
                <script>
                        var k=Number(prompt("Enter the number of array numbers: "));
                        var num=[];
                        var t,sum=0,prod=1;
                        for(var i=0;i<k;i++)
                        {
                                t=i+1;
                                num[i]=Number(prompt("Enter number"+t+" :"));
                                sum+=num[i];
                                prod*=num[i];
                        }

                        document.write("Array: ",num);
                        document.write("<br>");
                        document.write("Sum: ",sum);
                        document.write("<br>");
                        document.write("Product: ",prod);
                </script>
        </body>
</html>
```

This page says

Enter the number of array numbers:

```
3
```

OK    Cancel



This page says

Enter number1 :

```
2
```

OK    Cancel



This page says

Enter number2 :

```
7
```

OK    Cancel



This page says

Enter number3 :

```
5
```

OK    Cancel



Array: 2,7,5
Sum: 14
Product: 70

**8. Write a JavaScript program to add items in a blank array and display the items.**

```
<html>
    <head>
        <title>Display array</title>
    </head>
    <body>
        <script>
            var k=Number(prompt("Enter the number of array items: "));
            var num=[];
            var t;
            for(var i=0;i<k;i++)
            {
                t=i+1;
                num[i]=prompt("Enter friend"+t+" name :");
                document.write(num[i]);
                document.write("<br>");
            }
            document.write("<br>");
            document.write("List of friends names: ",num);
            document.write("<br>");
        </script>
    </body>
</html>
```

Debarauti
Swarnalakshmi
Subbuji

List of friends names: Debarauti,Swarnalakshmi,Subbuji

---
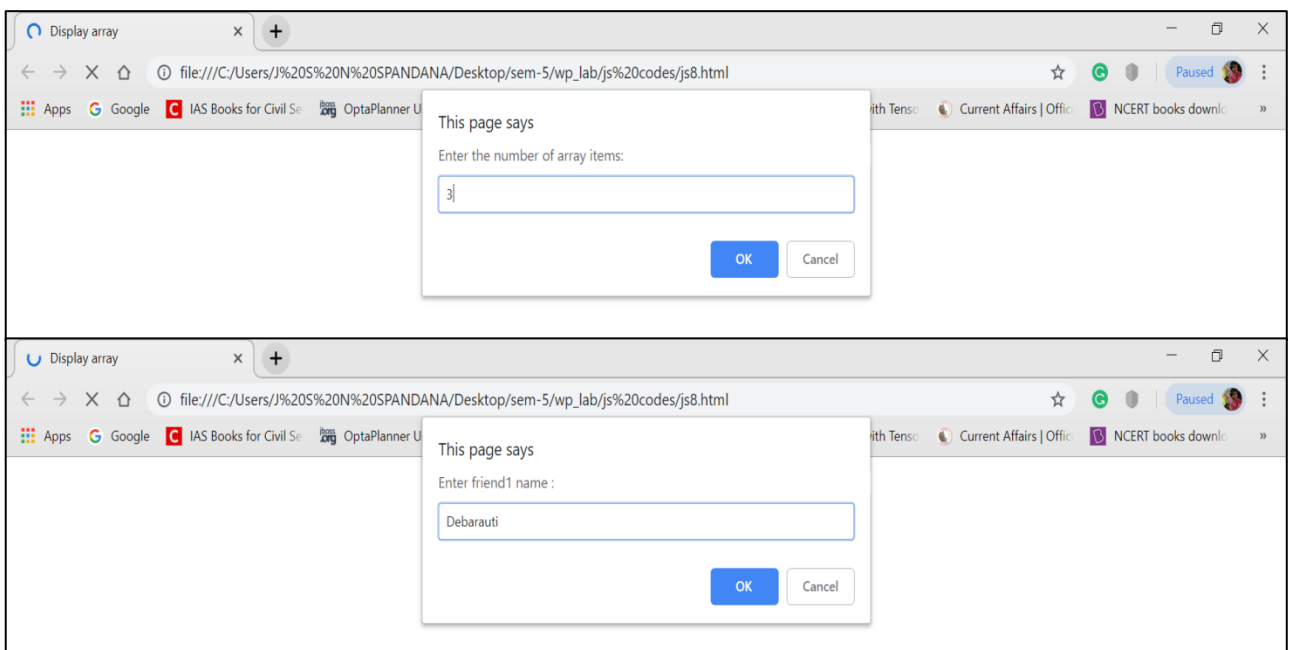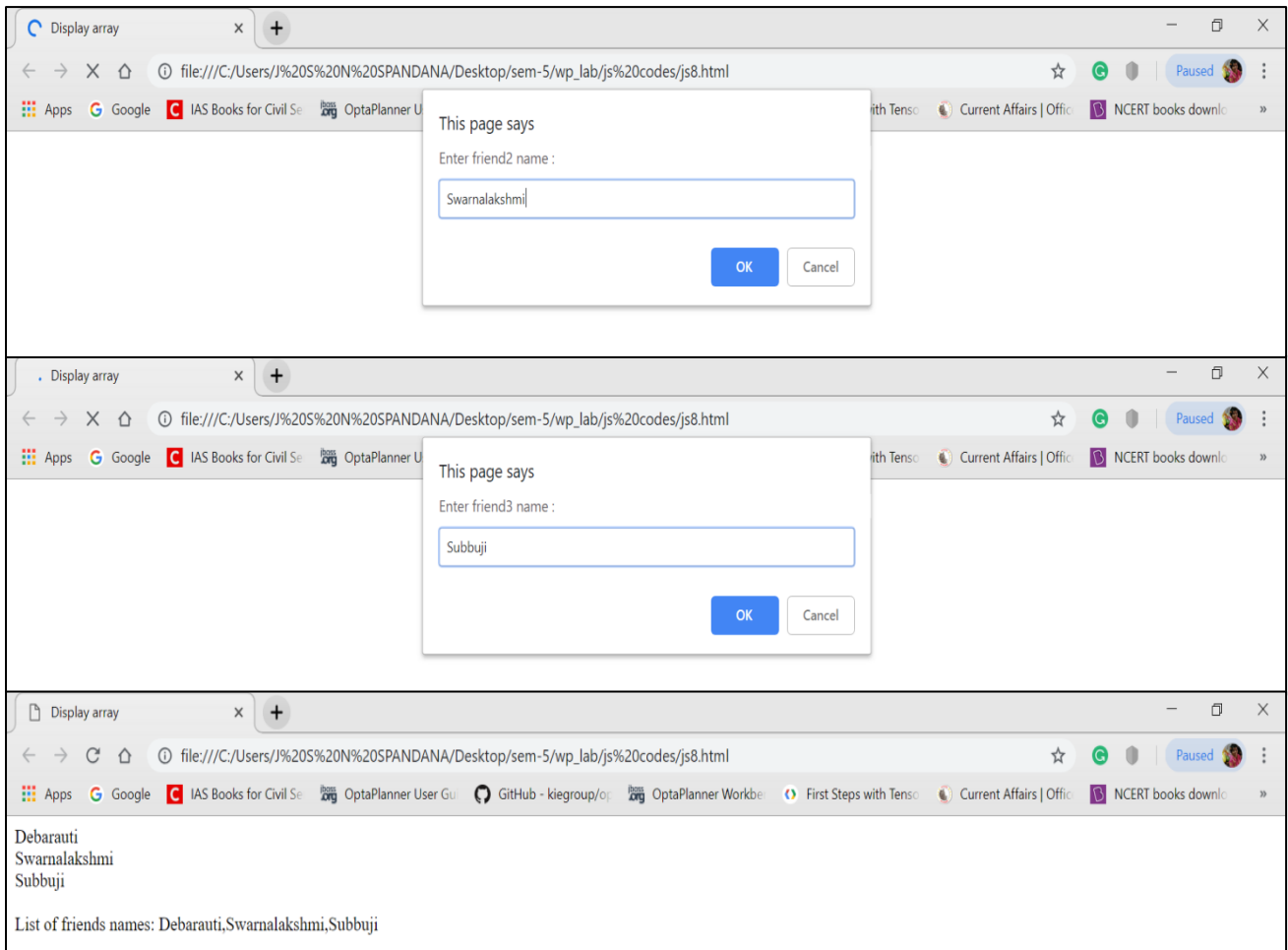
**9. Write a JavaScript function to merge two arrays and removes all duplicates elements.**

```
<html>
      <head>
            <title>Merge arrays</title>
      </head>
      <body>
            <script type="text/javascript">
                  var a = [1,2,3,4,5,6,7];
                  var b = [4,5,6,7,8,9,10];
                  var res = a.concat(b);
                  for(var i = 0; i<res.length; i++){
                        for(var j = i+1; j<res.length; j++){
                              if(res[i]===res[j])
                                    res.splice(j--,1);
                        }
                  }
                  console.log(res);
```

```
                        for(var i = 0; i<res.length; i++){
                                document.write(res[i] , " \n ");
                        }
                </script>
        </body>
</html>
```
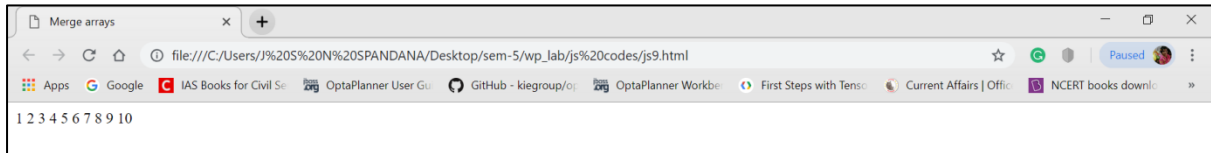
## Form Validation:

```
<script>
        function validate()
        {
                var namepat=document.getElementById("fname").value;
                var mobilepat=document.getElementById("num").value;
                var mailpat=document.getElementById("mail").value;
                var passpat=document.getElementById("passw").value;
                var confirm=document.getElementById("conf").value;

                var pswPattern = /^(?=.*[0-9])(?=.*[!@#$%^&*])[a-zA-Z0-
                9!@#$%^&*]{6,16}$/;
                var phnoPattern = new RegExp("^[0-9]{10}$");
                var mailidPattern = /^\w+([\.-]?\w+)*@\w+([\.-]?\w+)*(\.\w{2,3})+$/;

                if (namepat = "" || mobilepat == "" || passpat == "" || mailpat == "")
                        alert("Please enter the values for empty fields!");

                if(!phnoPattern.test(mobilepat))
                {
                        alert("Enter a valid 10-digit mobile number");
                }

                if(!pswPattern.test(passpat))
                {
                        alert("Your password must comprise of numbers, special characters,
                        upper and lowercase letters with length between  6 and 16");
                }

                if(!mailidPattern.test(mailpat))
```

```
                        {
                                alert("Enter a valid email ID");
                        }

                        if(confirm!=passpat)
                        {
                                alert("Passwords are not matching!");
                        }
                }
</script>
```
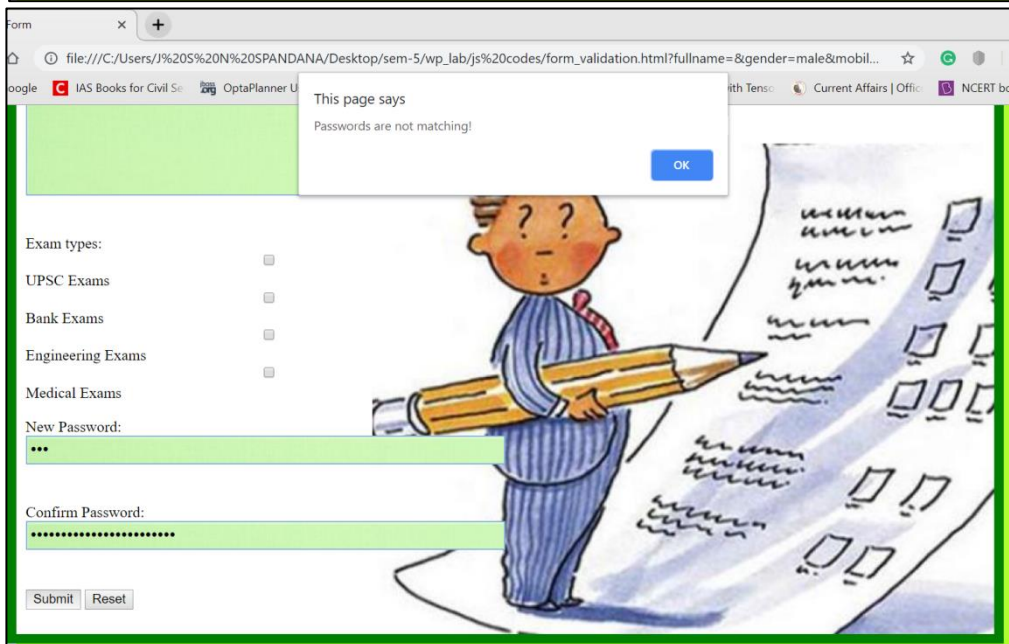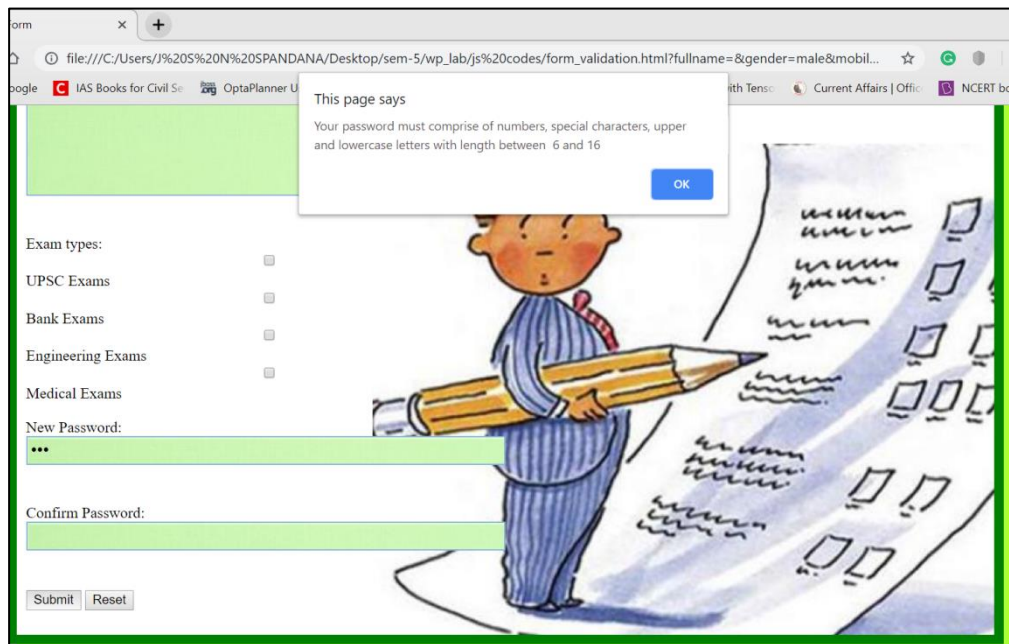
This page says

Please enter the values for empty fields!
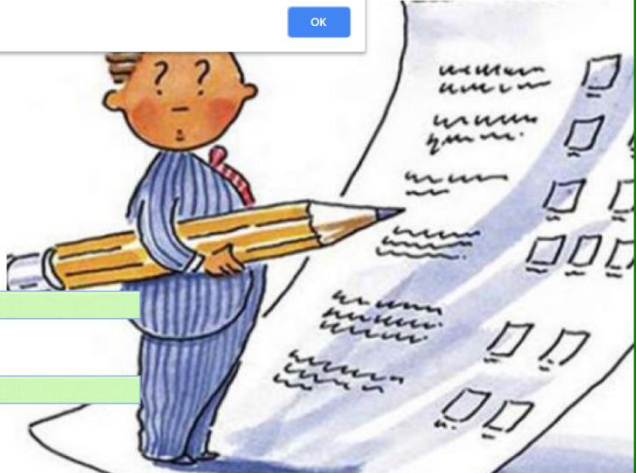
OK

Exam types:

UPSC Exams    ☐

Bank Exams    ☐

Engineering Exams    ☐

Medical Exams    ☐

New Password:

Confirm Password:

Submit    Reset

---

Form    ×    +

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Male

Female

Other

This page says

Enter a valid email ID
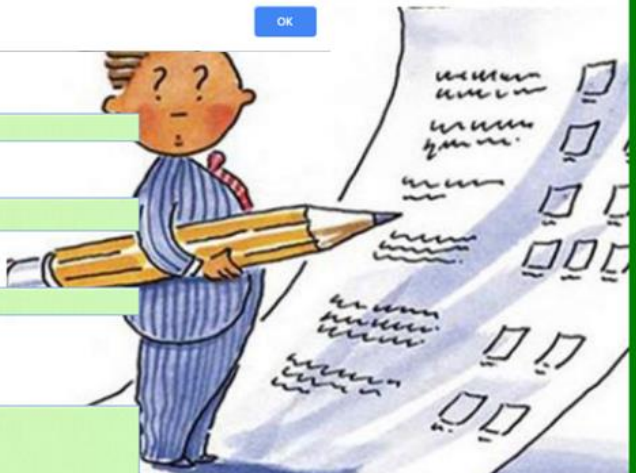
OK

Mobile Number:

Date of Birth:
dd-mm-yyyy

Email ID:
ssspangmail.com

Qualification: Tenth Standard    ▼

Hobbies:

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Form    ×    +

⌂    ⓘ  file:///C:/Users/J%20S%20N%20SPANDANA/Desktop/wp_lab/js%20codes/form_validation.html?fullname=&gender=male&mobil...    ☆    ⓖ    ⬤

oogle    C  IAS Books for Civil Se    OptaPlann    os with Tenso    Current Affairs | Offic    NCERT bo

Gender:

Male    ◉

Female    ○

Other    ○

This page says

Enter a valid 10-digit mobile number

OK

Mobile Number:
82365919975188716    ⬍

Date of Birth:
dd-mm-yyyy

Email ID:

Qualification: Tenth Standard    ▼

Hobbies: