A) Performing various operations such as calculating

i)factorials

code:-

```html
<!DOCTYPE html>
<html lang="en">
<head><title>prac-4A</title>
</head>
<style>
   .button {
      background-color: #4CAF50;
      color: #fff;
      padding: 10px 20px;
      border: none;
      border-radius: 5px;
      cursor: pointer;
   }

   .button:hover {
      background-color: #3e8e41;
   }
</style>
<body>
  <center>
 <form>
  <input type="button"
  value="Factorial"
  onclick="cf()"
  class="button">
  </form>
 </center>
 <script>
 function cf()
 {
    var num=prompt("Enter a number");
    var fact=1;
    for(var i=1;i<=num;i++){
        fact*=i;
}
alert("Factorial of "+num+" is "+fact);
 }
    </script>
</body>
</html>
```

prac-A2 Fibonacci series

Code :-

```html
<!DOCTYPE html>
<html>
<head>
<title>iii) evaluating expession</title>
</head>
<body>
<center>
<script>
var x=5;
var y=10;
```

Factorial

127.0.0.1:5500 says

Enter a number

5

OK   Cancel

127.0.0.1:5500 says

Factorial of 5 is 120

OK

Answer :15

Answer :50

Answer :25

```javascript
var a=eval("x+y");
document.write("Answer :"+a+"<br>");
var b=eval("x*10");
document.write("Answer :"+b+"<br>");
var c=eval("5*5");
document.write("Answer :"+c+"<br>");
</script>
</center>
</body>
</html>
```
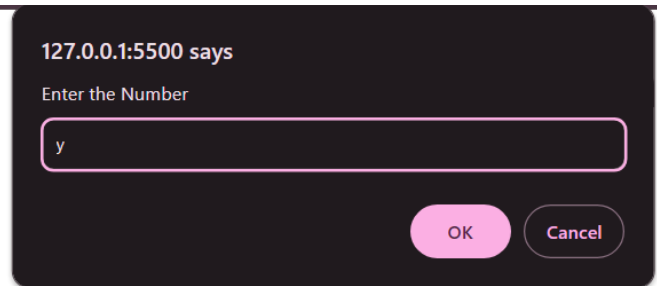
---

practical-B(i)Number validation;

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code:-

```html
<!DOCTYPE html>
<html>
<head>
<title>b(i) Number validation</title>
</head>
<body>
 <center>
 <script>
var n=prompt("Enter the Number");
if(isNaN(n))
{
    document.write("enter number only");
}
else{
    document.write("it is number");
}
</script>
 </center>
</body>
</html>
```


127.0.0.1:5500 says

Enter the Number

y

OK   Cancel

enter number only

---

prac-B (ii)

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code

```html
<!DOCTYPE html>
<html lang="en">
<head> <title>B(ii)</title>
</head>
<body>
 <center>
    <form name="f1">
        Username : <input type="text" name="u1">
        <br><br>
        Password : <input type="password" name="p1">
        <br><br>
        <input type="button" value="Submit" onclick="f()">
    </form>
    <script>
        function f()
        {
            var name=document.f1.u1.value;
            var pass=document.f1.p1.value;
            if(name=="")
            {
                document.write(" username can't be blank");
            }
```

Username :

Password : ••••••••

Submit

username can't be blank

```html
            else if(pass.length >7 && pass.length <14){
             document.write("enter password between 7 to 14");
            }
            else{
                document.write("correct");
            }
        }
    </script>
 </center>
</body>
</html>
```