Bg color dropdown ////

```html
<body>
    <form>
    <label>Background:</label>
    <select>
       <option selected="">Select your Background</option>
       <option onClick="document.bgColor = 'blue'">Blue</option>
       <option onClick="document.bgColor = 'green'">Green</option>
       <option onClick="document.bgColor = 'brown'">Brown</option>
    </select>
    </form>
</body>
```

Bg color Radio ////////

```html
    <body>
    <form>
    Background:
    <input type="radio" name="background" onClick="document.bgColor = 'blue'">
    <input type="radio" name="background" onClick="document.bgColor = 'brown'">
    <input type="radio" name="background" onClick="document.bgColor = 'green'">
    </form>
  </body>
```

Email////////

```html
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">

<head>

<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />

<title>Untitled Document</title>

        <script>
```

```
            function validateEmail(){

                    var x=document.forms.myForm.email.value;

                    var atpos=x.indexOf("@");

                    var dotpos=x.lastIndexOf(".");


                    if(atpos<1 || dotpos<atpos+2 || dotpos+2>=x.length ){

                            alert("Not a valid email address");

                            return false;

                            }else{

                                    alert ("valid email address");

                                    }

                    }

        </script>


</head>


<body>

        <form name="myForm" action="#" onsubmit="validateEmail()" method="post">

    Email:<input type="text" name="email" />

    <input type="submit" name="send" />

    </form>


</body>
</html>
```

Factorial /////

```
<body>

        <script>

                function findFactorial(num){

                        if(num==0 || num==1){
```

```
                    return 1;
                }else{
                        return findFactorial(num-1)*num;
                    }
            }
            var x=parseInt(prompt("Enter a number"));
            alert(findFactorial(x));
    </script>
</body>
```

```
<body>
        <script>
                var i;
                var fib=[];

                fib[0]=0;
                fib[1]=1;

                for(i=2; i<=10; i++){
                        fib[i]=fib[i-2]+fib[i-1];
                        document.write(fib[i]+"<br/>");
                }
        </script>
</body>
```

```
<body>
     <script>
    var sn = parseInt(prompt("Enter 1st number", ""));
    var en = parseInt(prompt("Enter 2nd number", ""));
```

```javascript
function oddEven(sn, en) {
    for (sn; sn <= en; sn++) {
        if (sn % 2 == 1) {
            document.write(sn + " is odd" + "<br/>");
        } else {
            document.write(sn + " is even" + "<br/>");
        }
    }
}
oddEven(sn, en);
</script>
</body>
```

Prime /////

```javascript
var num = parseInt(prompt("Enter the number", ""));
function isPrime(num) {
    for (var i = 2; i < num; i++)
        if (num % i === 0)
            return false;
    return num !== 1 && num !== 0;
}
alert(isPrime(num));


function printPrime(sn,en){
    for(sn; sn<en; sn++){
        if(isPrime(sn))
        document.write(sn+"<br/>");
    }
}
```

```
                printPrime(1,100);


        function sumPrime(sn,en){

                var sum=0;

                for(sn; sn<en; sn++){

                        if(isPrime(sn)){

                                sum+=sn;

                                }

                        }

                return sum;

                }

        document.write(sumPrime(1,100));


        function countPrime(sn,en){

                var count=0;

                for(sn;sn<en; sn++){

                        if(isPrime(sn)){

                                count++;

                                }

                        }

                return count;

                }

        document.writer(countPrime(1,100));


        </script>

</body>
```