**HTML FILE**

Index.html

<html><body>

<input id= "user\_in"></input>! = <span id= "user\_out"></span></body>

<script src = "http://code.jquery.com/jquery-1.10.2.min.js"></script>

<script src ="Hw4.js"></script></html>

**JavaScript File**

Hw4.js

$(function(){

var input = $("#user\_in");

input.on('keyup',function(e) {

var toCheck= input.val();

if (toCheck.length==0){

$("#user\_out").text("");

$("#user\_out").css("color","black");

}else if(!isNaN(parseInt(toCheck, 10))){

$("#user\_out").text(factorial(toCheck));

$("#user\_out").css("color","black");

}else{

$("#user\_out").text("?");

$("#user\_out").css("color","red");

}

});

});

factorial= function(candidate){

if(candidate==0) return 1;

else return candidate\*factorial(candidate-1);

}