Write a function that generates a random number between 0-10. If this number is greater than five, log “Greater than five!”. If it is less than five, log “Less than five!”

function isGreaterThanFive(){

var num = Math.random()\*10;

console.log(num);

if (num > 5){

console.log("Greater than five");

}console.log("Less than five");

}

Write a function areaOfCircle(r) which returns the area of a circle of radius r

function areaOfCircle(r) {

var area = Math.PI\*r\*r;

return area;

}

Write a program that will compute the area of a circle. Prompt the user to enter the radius, and then print the answer.

function area(){

var radius = prompt("gimme a rad");

var area = Math.PI\*radius\*radius;

console.log(area);

}

Many people keep time using a 24 hour clock (11 is 11am and 23 is 11pm, 0 is midnight).

If it is currently 13 and you set your alarm to go off in 50 hours, the hour will be 15 (3pm). Write a program to solve the general version of the above problem. Ask the user for the current time (in hours), and then ask for the number of hours to wait for the alarm.

Your program should output what the hour will be on the clock when the alarm goes off.

function time() {

var current = Number(prompt("current time"));

var wait = Number(prompt("wait time"));

var totalhours = (current + wait);

var timeOfDay = (totalhours %24);

return timeOfDay;

}

Write a function called isEven(n) that takes an integer as an argument and returns **true** if the argument is an **even number** and false if it is **odd**.

function isEven(n){

if (n %2 === 0) {

console.log("true")

}console.log("false")

}

function isEven(n){

if (n %2 === 0) {

return true

}return false

}

Write a function that sums all the numbers in an array.

array = [1, 2, 3, 4, 5]

(5) [1, 2, 3, 4, 5]

sum(array)

undefined

function sum(array){

var total = 0;

for (var i=0; i < array.length; i++) {

total += array[i]

}

return total;

}

undefined

sum(array)

15

In this problem you will be given a string. You will need to return the string in reverse.

theString = “JavaScript”

reversedString = “tpircSavaJ”

var theString = "JavaScript"

undefined

var reversedString = "";

undefined

for (let i = theString.length-1; i >=0; i--){

reversedString += theString[i];

}

"tpircSavaJ"

In this problem you will be given a string. Your string is a representation of a phrase. It can contain words, and spaces. You need to return the number of words in the phrase.

**Example:**

the\_string = "The dog jumps over the cat."

num\_of\_words = 6

var word = “The dog jumps over the cat.”;

|  |  |
| --- | --- |
|  | var the\_first\_answer = words\_count(word); |
|  | var the\_second\_answer = word\_count(word); |
|  |  |
|  | console.log(the\_first\_answer); |
|  | console.log(the\_second\_answer); |
|  |  |
|  | function words\_count(word){ |
|  | words = word.split(' '); |
|  | return words.length; |
|  | } |
|  |  |
|  | function word\_count(word){ |
|  | num\_of\_words = 1; |
|  | for(var i = 0; i < word.length; i++){ |
|  | if(word[i] === ' '){ |
|  | num\_of\_words += 1; |
|  | } |
|  | } |
|  | return num\_of\_words; |
|  | } |

Write a JavaScript program to check if the last digit of the three given positive integers is same.

function last\_digit(x, y, z)

{

if ((x > 0) && y > 0 && z > 0)

{

return (x % 10 == y % 10 && y % 10 == z % 10 && x % 10 == z % 10);

}

else

return false;

}