Day 4 Tasks:

1.How to compare two JSON have the same properties without order?

* 1. var obj1 = { name: "Person 1", age:5 };
  2. var obj2 = { age:5, name: "Person 1" };

Solution: var obj1 = { name: "Person 1", age:5 };

var obj2 = { age:5, name: "Person 1" };

console.log( \_.isEqual(var obj1, var obj2) );

Simple Programs todo for variables

Declare four variables without assigning values and print them in console

How to get value of the variable myvar as outpu

**Solution**: var myvar= 1,2,3,4;  
console.log("myvar");

Square of a number

const number = prompt('Enter the number: ');

const result = Math.sqrt(number);

console.log(`The square root of ${number} is ${result}`);

Swapping 2 numbers

let a = prompt('Enter the first variable: ');

let b = prompt('Enter the second variable: ');

let temp;

temp = a;

a = b;

b = temp;

console.log(`The value of a after swapping: ${a}`);

console.log(`The value of b after swapping: ${b}`);

Addition of 3 numbers

function sumNumbers(a, b, c) {

    var sum = a + b + c;

    console.log(sum);

}

Celsius to Fahrenheit conversion

const celsius = prompt("Enter a celsius value: ");

const fahrenheit = (celsius \* 1.8) + 32

console.log(`${celsius} degree celsius is equal to ${fahrenheit} degree fahrenheit.`);

Meter to miles

const kilometers = prompt("Enter value in kilometers: ")

const factor = 0.621371

const miles = kilometers \* factor

console.log(`${kilometers} kilometers is equal to ${miles} miles.`);

Calculate Batting Average

class GFG{

static int averageRuns(int runs,

int matches,

int notout)

{

int out = matches - notout;

if (out == 0)

return -1;

int avg = (runs) / out;

return avg;

}

public static void main(String[] args)

{

int runs = 10000;

int matches = 250;

int notout = 50;

int avg = averageRuns(runs, matches, notout);

if (avg == -1)

System.out.print("NA");

else

System.out.print(avg);

}

}

Calculate five test scores and print their average

var total = 0;

for(var i = 0; i < testscore; i++) {

total += testscores[i];

}

var avg = total / testscore.length;

Power of any number x ^ y.

var b, e, r = 1, i = 1;

b = 5;

e = 4;

while(i <= e)

{

r \*= b;

i++;

}

document.write("Result:: " + b + "^" + e + " = " + r )

Calculate Simple Interest

var p, t, r, SI;

p = 15;

t = 12;

r = 12;

SI = (p \* t \* r) / 100;

document.write("Simple Interest = " + SI);

Calculate area of an equilateral triangle

const baseValue = prompt('Enter the base of a triangle: ');

const heightValue = prompt('Enter the height of a triangle: ');

const areaValue = (baseValue \* heightValue) / 2;

console.log(

`The area of the triangle is ${areaValue}`

);

Volume Of Sphere

let radius = parseInt(prompt("Enter the radius", "0"), 0);

let volume = (4/3)\* Math.PI \* Math.pow(radius, 3);

console.log('Volume of Sphere: '+volume.toFixed(2));

Volume Of Prism

function findVolume( l,  b, h)

{

    let volume = (l \* b \* h) / 2;

    return volume;

}

  let l = 18, b = 12, h = 9;

    document.write( "Volume of triangular prism: " + findVolume(l, b, h));