Day 4 – Activities and their Answers

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

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

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

Ans:

|  |
| --- |
| var obj1 = { name: "Person 1", age:5 };  var obj2 = { age:5, name: "Person 1" };  let comp1= JSON.stringify(obj1);  let comp2= JSON.stringify(obj2);  var flag=true;  if(Object.keys(obj1).length==Object.keys(obj2).length){  for(var key in obj1) {  if(obj1[key] == obj2[key]) {  continue;  }  else {  flag=false;  break;  }  }  }  else {  flag=false;  }  console.log("is object equal"+flag); |

Note:- Run in GUVI IDE.

2. Use the rest countries API url -> https://raw.githubusercontent.com/rvsp/restcountries-json-data/master/res-countries.json and display all the country flags in console.

Ans: refer the html and js file (should be opened with VS code for answer code) attached in the repository for answer.

3. Use the same rest countries API from above question and print all countries name, region, sub region and population.

Ans: refer the html and js file (should be opened with VS code for answer code) attached in the repository for answer.

4. Using the link given - <https://medium.com/@reach2arunprakash/www-guvi-io-zen-d395deec1373> (Solve any of the 10 question as per mentor instruction).

Ans:

The Following codes should be ran with the help of GUVI/IDE and the codekata template of Node.js

Node.Js template:

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| // Getting input via STDIN  const readline = require("readline");  const inp = readline.createInterface({  input: process.stdin  });  const userInput = [];  inp.on("line", (data) => {  userInput.push(data);  });  inp.on("close", () => {  //start-here  //Your code goes here … replace the below line with your code logic  // the codes for the problems should be pasted here to run.  //end-here  }); |

1. Square of a number.

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| let A=userInput[0]\*1;  Result = A \* A;  console.log(Result); |

2. Swapping 2 numbers.

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| let A=userInput[0]\*1;  let B=userInput[1]\*1;  C=A;  A=B;  B=C;  console.log(`the swapped numbers are ${A} and ${B}`);  /\* the input should be given separate lines like this:  1  2  \*/ |

3. Addition of 3 numbers.

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| --- |
| let A=userInput[0].split(" ");  a=A[0]\*1;  b=A[1]\*1;  c=A[2]\*1;  Result = a+b+c;  console.log(Result);  // input format: 1 2 3 |

4. Given two numbers and perform all arithmetic operations.

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| let A= userInput[0].split(" ");  num1=A[0]\*1;  num2=A[1]\*1;  Add= num1+num2;  sub= num1-num2;  product=num1\*num2;  quotient=num1/num2;  modulo=num1%num2;  console.log(`The given 2 numbers are performed under 5 arithmatic operations; \n addition-${Add},subtraction-${sub},product-${product},quotient-${quotient},modulo-${modulo}`);  //input format: 12 3 |

5. Find area of a triangle.

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| --- |
| let a= userInput[0].split(" ");  let A = a[0]\*1;  let B= a[1]\*1;  let C = (1/2)\*A \* B;  Output = C.toFixed(2);  console.log(Output);  //input format: 12 3.55 |

6. Calculate Simple Interest.

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| --- |
| let a= userInput[0].split(' ');  let P= a[0];  let T= a[1];  let R= a[2];  let output = P\*T\*R/100;  output= output.toFixed(2);  console.log(output);  // input format: 1000 2 5 |

7. Celsius to Fahrenheit conversion.

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| --- |
| let A= userInput[0]\*1;  B = (A\*9/5) + 32;  B= B.toFixed(2);  console.log(B);  // input format: 12 |

8. Meter to miles.

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| let a= userInput[0]\*1;  result = a\*0.000621371;  console.log(`The meter to miles converted value is ${result.toFixed(2)}.`);  //input format: 2000 |

9. Pounds to kg.

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| --- |
| let a= userInput[0]\*1;  result = a\*0.453592;  console.log(`The pounds to kilogram converted value is ${result}Kg.`);  //input format: 200 |

10. Given their radius of a circle and find its diameter, circumference and area.

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| --- |
| let r= userInput[0]\*1;  dia= 2\*r;  const PI=22/7;  let circum= 2\*PI\*r;  let area= PI\*r\*r;  console.log(`The values of diameter,circumference,area of circle: ${dia}, ${circum.toFixed(2)}, ${area.toFixed(2)} respectively.`);  //input format: 200 |