# **JavaScript Answer Key**

countryData=[

{

"name": "India",

"topLevelDomain": [

".in"

],

"alpha2Code": "IN",

"alpha3Code": "IND",

"callingCodes": [

"91"

],

"capital": "New Delhi",

"altSpellings": [

"IN",

"Bhārat",

"Republic of India",

"Bharat Ganrajya"

],

"subregion": "Southern Asia",

"region": "Asia",

"population": 1380004385,

"latlng": [

20.0,

77.0

],

"demonym": "Indian",

"area": 3287590.0,

"gini": 35.7,

"timezones": [

"UTC+05:30"

],

"borders": [

"AFG",

"BGD",

"BTN",

"MMR",

"CHN",

"NPL",

"PAK",

"LKA"

],

"nativeName": "भारत",

"numericCode": "356",

"flags": {

"svg": "https://flagcdn.com/in.svg",

"png": "https://flagcdn.com/w320/in.png"

},

"currencies": [

{

"code": "INR",

"name": "Indian rupee",

"symbol": "₹"

}

],

"languages": [

{

"iso639\_1": "hi",

"iso639\_2": "hin",

"name": "Hindi",

"nativeName": "हिन्दी"

}

],

"flag": "https://flagcdn.com/in.svg",

"regionalBlocs": [

{

"acronym": "SAARC",

"name": "South Asian Association for Regional Cooperation"

}

],

"cioc": "IND",

"independent": true

}

]

**1- Find The Capital? score=1**

console.log(countryData[0].capital);

**2.Find Population? score=1**

console.log(countryData[0].population);

**3.display list of borders ? score=1**

console.log(countryData[0].borders);

**4.Find Language name? score=1**

console.log(countryData[0].languages[0].name);

**5.find currency code? score=1**

console.log(countryData[0].currencies[0].code);

**6.Find total count of borders? score=1**

console.log(countryData[0].borders.length);

**7.a=[10,20,10,20,20,30,10,20,20,30]**

**create an element count object for array a? score=2**

a=[10,20,10,20,20,30,10,20,20,30]

count={}

a.map(i=>i in count?count[i]+=1:count[i]=1)

console.log(count);

**8.code for the following pattern? score=3**

n=4

for(i=1;i<=4;i++){

s=""

for(k=1;k<=n;k++){

s=s+" "

}

n--

for(j=1;j<=i;j++){

if(i==3&&j==2){

s=s+" "

}

else{

s=s+"\* "

}

}

console.log(s);

}

n=2

for(i=3;i>=1;i--){

s=""

for(k=1;k<=n;k++){

s=s+" "

}

n++

for(j=1;j<=i;j++){

if(i==3&&j==2){

s=s+" "

}

else{

s=s+"\* "

}

}

console.log(s);

}

**9.Find the longest and shortest names from array names score=1**

names=["amal","vinu","ashok ram","amal","arun","anu","vonod "]

console.log(names.reduce((a,b)=>a.length>b.length?a:b));

console.log(names.reduce((a,b)=>a.length<b.length?a:b));

//10.program to print the given pattern score=3

for(i=1;i<=4;i++){

s=""

for(j=1;j<=i;j++){

if((i==3&&j==2)||(i==4&&j==2)||(i==4&&j==3)){

s=s+" "

}

else{

s=s+1+" "

}

}

console.log(s);

}

for(i=3;i>=1;i--){

s=""

for(j=1;j<=i;j++){

if(i==3&&j==2){

s=s+" "

}

else{

s=s+1+" "

}

}

console.log(s);

}

**11. create a function to find missing numbers in given array a=[1,2,4,5,6,8,10]? score=5**

function findMissingNumbers(a) {

const missingNumbers = [];

l=a.length - 1

for (i = a[0]; i < a[l]; i++) {

if (!(a.includes(i))) {

missingNumbers.push(i);

}

}

return missingNumbers;

}

console.log(findMissingNumbers([1, 2, 4, 5, 6, 8, 10]));