**Day 06 :OOPS TASK**

1. https://github.com/rvsp/typescript-oops/blob/master/Practice/Movie.md
2. https://github.com/rvsp/typescript-oops/blob/master/Practice/class-circle.md
3. **Write a “person” class to hold all the details.**

class Person{

constructor (name,DOB, gender,maritalstatus){

this.name=name

this.DOB=DOB

this.gender=gender

this.maritalstatus=maritalstatus

}

}

class Perdetails extends Person{

constructor(name,DOB, gender,maritalstatus,phoneno,email,occupation,adddress){

super(name,DOB, gender,maritalstatus)

this.phoneno=phoneno

this.email=email

this.occupation=occupation

this.adddress=adddress

}

persondetails()

{

return (` name: ${this.name}

DOB: ${this.DOB}

gender: ${this.gender}

occupation: ${this.occupation}`)

}

}

let details=new Perdetails ('JOHN','27/12/2022','male','engaged','12349876','john123@gmail.com','business man','House no:23, 2nd floor, brigade apartment, jaynagar, banglolre-560079, Karantaka')

console.log(details)

console.log(details.persondetails())

**OP**

Perdetails {

name: 'JOHN',

DOB: '27/12/2022',

gender: 'male',

maritalstatus: 'engaged',

phoneno: '12349876',

email: 'john123@gmail.com',

occupation: 'business man',

adddress:

'House no:23, 2nd floor, brigade apartment, jaynagar, banglolre-560079, Karantaka' }

name: JOHN

DOB: 27/12/2022

gender: male

occupation: business man

1. **write a class to calculate the uber price.**

//write a code to get the uber price using class

class Uber {

constructor(price, distance, time){

this.price=price

this.distance=distance

this.time=time

}

yourfare(){

var fare=this.price\*this.distance\*this.time

return fare

}

}

var dis=new Uber(20,2,5)

console.log(` the price details for your ride is

price per KM:${dis.price}.RS

total distance you are travelling:${dis.distance}KM

time taken to travel ${dis.distance}KM is ${dis.time} Minutes

and you fare is:${dis.yourfare()}.RS

ENJOY YOUR RIDE`)

**OP**

the price details for your ride is

price per KM:20.RS

total distance you are travelling:2KM

time taken to travel 2KM is 5 Minutes

and you fare is:200.RS

ENJOY YOUR RIDE

**Day 07:ARRAY METHODS**

1. **Solving problems using array functions on rest countries data.**
   1. **Get all the countries from Asia continent /region using Filter function**

var request=new XMLHttpRequest()

request.open('get','https://raw.githubusercontent.com/rvsp/restcountries-json-data/master/res-countries.json',true)

request.send()

request.onload=function(){

    var data=JSON.parse(request.response)

    var asiancountries=data.filter((ele)=>ele.region==='Asia').map((ele)=>ele.name)

    console.log(asiancountries)

}

**OP**

(50) ['Afghanistan', 'Armenia', 'Azerbaijan', 'Bahrain', 'Bangladesh', 'Bhutan', 'Brunei Darussalam', 'Cambodia', 'China', 'Georgia', 'Hong Kong', 'India', 'Indonesia', 'Iran (Islamic Republic of)', 'Iraq', 'Israel', 'Japan', 'Jordan', 'Kazakhstan', 'Kuwait', 'Kyrgyzstan', "Lao People's Democratic Republic", 'Lebanon', 'Macao', 'Malaysia', 'Maldives', 'Mongolia', 'Myanmar', 'Nepal', "Korea (Democratic People's Republic of)", 'Oman', 'Pakistan', 'Palestine, State of', 'Philippines', 'Qatar', 'Saudi Arabia', 'Singapore', 'Korea (Republic of)', 'Sri Lanka', 'Syrian Arab Republic', 'Taiwan', 'Tajikistan', 'Thailand', 'Timor-Leste', 'Turkey', 'Turkmenistan', 'United Arab Emirates', 'Uzbekistan', 'Viet Nam', 'Yemen']

* 1. **Get all the countries with a population of less than 2 lakhs using Filter function**

var request=new XMLHttpRequest()

request.open('get','https://raw.githubusercontent.com/rvsp/restcountries-json-data/master/res-countries.json',true)

request.send()

request.onload=function(){

    let data=JSON.parse(request.response)

    let pop=data.filter((ele)=>ele.population<200000).map((ele)=>ele.name)

    console.log(pop)

}

**OP**

(63) ['Åland Islands', 'American Samoa', 'Andorra', 'Anguilla', 'Antarctica', 'Antigua and Barbuda', 'Aruba', 'Bermuda', 'Bonaire, Sint Eustatius and Saba', 'Bouvet Island', 'British Indian Ocean Territory', 'United States Minor Outlying Islands', 'Virgin Islands (British)', 'Virgin Islands (U.S.)', 'Cayman Islands', 'Christmas Island', 'Cocos (Keeling) Islands', 'Cook Islands', 'Curaçao', 'Dominica', 'Falkland Islands (Malvinas)', 'Faroe Islands', 'French Southern Territories', 'Gibraltar', 'Greenland', 'Grenada', 'Guam', 'Guernsey', 'Heard Island and McDonald Islands', 'Holy See', 'Isle of Man', 'Jersey', 'Kiribati', 'Liechtenstein', 'Marshall Islands', 'Micronesia (Federated States of)', 'Monaco', 'Montserrat', 'Nauru', 'Niue', 'Norfolk Island', 'Northern Mariana Islands', 'Palau', 'Pitcairn', 'Saint Barthélemy', 'Saint Helena, Ascension and Tristan da Cunha', 'Saint Kitts and Nevis', 'Saint Lucia', 'Saint Martin (French part)', 'Saint Pierre and Miquelon', 'Saint Vincent and the Grenadines', 'Samoa', 'San Marino', 'Sao Tome and Principe', 'Seychelles', 'Sint Maarten (Dutch part)', 'South Georgia and the South Sandwich Islands', 'Svalbard and Jan Mayen', 'Tokelau', 'Tonga', 'Turks and Caicos Islands', 'Tuvalu', 'Wallis and Futuna']

* 1. **Print the following details name, capital, flag using forEach function**

var request=new XMLHttpRequest()

request.open('get','https://raw.githubusercontent.com/rvsp/restcountries-json-data/master/res-countries.json',true)

request.send()

request.onload=function(){

    let data=JSON.parse(request.response)

    data.forEach((value,key)=>console.log(`${value.name}'s capital is ${value.capital} and the flag is ${value.flag}`))

}

**OP**

Costa Rica’s capital is San José and the flag is <https://restcountries.eu/data/cri.svg>

Japan’s capital is Tokyo and the flag is <https://restcountries.eu/data/jpn.svg>

Morocco’s capital is Rabat and the flag is <https://restcountries.eu/data/mar.svg>

+247

* 1. **Print the total population of countries using reduce function**

var request=new XMLHttpRequest()

request.open('get','https://raw.githubusercontent.com/rvsp/restcountries-json-data/master/res-countries.json',true)

request.send()

request.onload=function(){

    var data=JSON.parse(request.response)

    var totalpopulation=data.reduce((acc,ele)=>acc+ele.population,0)

    console.log(`The total population of all the countries is: ${totalpopulation}`)

}

**OP**

The total population of all the countries is: 7349137231

* 1. **Print the country which uses US Dollars as currency.**

let request=new XMLHttpRequest()

request.open('get','https://raw.githubusercontent.com/rvsp/restcountries-json-data/master/res-countries.json',true)

request.send()

request.onload=function(){

    let data=JSON.parse(request.response)

    let res=data.filter((ele)=>ele.currencies[0].code==='USD').map((ele)=>ele.name)

    console.log(res)

}

**Op**

(14) ['American Samoa', 'Bonaire, Sint Eustatius and Saba', 'British Indian Ocean Territory', 'United States Minor Outlying Islands', 'Virgin Islands (U.S.)', 'Ecuador', 'El Salvador', 'Guam', 'Marshall Islands', 'Northern Mariana Islands', 'Puerto Rico', 'Timor-Leste', 'Turks and Caicos Islands', 'United States of America']