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" };**

**Answer 1:**

function compareObjects (o1, o2) {

for (var p in o1) {

if(o1.hasOwnProperty(p)) {

if (o1[p] !== o2[p]) {

return false;

}

}

}

for (var p in o2) {

if(o2.hasOwnProperty(p)) {

if (o1[p] !== o2[p]) {

return false;

}

}

}

return true;

}

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

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

console.log(compareObjects(obj1, obj2));

1. **2. Use the rest countries API url ->** [**https://restcountries.eu/rest/v2/all**](https://restcountries.eu/rest/v2/all) **and display all the country flags in console?**
2. **Answer:**
3. Index.html
4. <!DOCTYPE html>
5. <html lang="en">
6. <head>
7. <meta charset="UTF-8">
8. <meta http-equiv="X-UA-Compatible" content="IE=edge">
9. <meta name="viewport" content="width=device-width, initial-scale=1.0">
10. <title>Document</title>
11. <script type="text/javascript" src="script.js"></script>
12. <link rel="stylesheet" href="style.css" />
13. </head>
14. <body>
16. </body>
17. </html>

Script.js

var request= new XMLHttpRequest();

request.open('GET','https://restcountries.com/v2/all',true)

request.send();

request.onload=function(){

    var data=JSON.parse(request.response);

    console.log(data);

    for(var i=0; i<data.length; i++){

        console.log(data[i].flag)

    }

}

Output is

script.js:6 (250) [{…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, …]

script.js:9 https://upload.wikimedia.org/wikipedia/commons/5/5c/Flag\_of\_the\_Taliban.svg

script.js:9 https://flagcdn.com/ax.svg

script.js:9 https://flagcdn.com/al.svg

script.js:9 https://flagcdn.com/dz.svg

script.js:9 https://flagcdn.com/as.svg

script.js:9 https://flagcdn.com/ad.svg

script.js:9 https://flagcdn.com/ao.svg

script.js:9 https://flagcdn.com/ai.svg

script.js:9 https://flagcdn.com/aq.svg

script.js:9 https://flagcdn.com/ag.svg

script.js:9 https://flagcdn.com/ar.svg

script.js:9 https://flagcdn.com/am.svg

script.js:9 https://flagcdn.com/aw.svg

script.js:9 https://flagcdn.com/au.svg

script.js:9 https://flagcdn.com/at.svg

script.js:9 https://flagcdn.com/az.svg

script.js:9 https://flagcdn.com/bs.svg

script.js:9 https://flagcdn.com/bh.svg

script.js:9 https://flagcdn.com/bd.svg

script.js:9 https://flagcdn.com/bb.svg

script.js:9 https://flagcdn.com/by.svg

script.js:9 https://flagcdn.com/be.svg

script.js:9 https://flagcdn.com/bz.svg

script.js:9 https://flagcdn.com/bj.svg

script.js:9 https://flagcdn.com/bm.svg

script.js:9 https://flagcdn.com/bt.svg

script.js:9 https://flagcdn.com/bo.svg

script.js:9 https://flagcdn.com/bq.svg

script.js:9 https://flagcdn.com/ba.svg

script.js:9 https://flagcdn.com/bw.svg

script.js:9 https://flagcdn.com/bv.svg

script.js:9 https://flagcdn.com/br.svg

script.js:9 https://flagcdn.com/io.svg

script.js:9 https://flagcdn.com/um.svg

script.js:9 https://flagcdn.com/vg.svg

script.js:9 https://flagcdn.com/vi.svg

script.js:9 https://flagcdn.com/bn.svg

script.js:9 https://flagcdn.com/bg.svg

script.js:9 https://flagcdn.com/bf.svg

script.js:9 https://flagcdn.com/bi.svg

script.js:9 https://flagcdn.com/kh.svg

script.js:9 https://flagcdn.com/cm.svg

script.js:9 https://flagcdn.com/ca.svg

script.js:9 https://flagcdn.com/cv.svg

script.js:9 https://flagcdn.com/ky.svg

script.js:9 https://flagcdn.com/cf.svg

script.js:9 https://flagcdn.com/td.svg

script.js:9 https://flagcdn.com/cl.svg

script.js:9 https://flagcdn.com/cn.svg

script.js:9 https://flagcdn.com/cx.svg

script.js:9 https://flagcdn.com/cc.svg

script.js:9 https://flagcdn.com/co.svg

script.js:9 https://flagcdn.com/km.svg

script.js:9 https://flagcdn.com/cg.svg

script.js:9 https://flagcdn.com/cd.svg

script.js:9 https://flagcdn.com/ck.svg

script.js:9 https://flagcdn.com/cr.svg

script.js:9 https://flagcdn.com/hr.svg

script.js:9 https://flagcdn.com/cu.svg

script.js:9 https://flagcdn.com/cw.svg

script.js:9 https://flagcdn.com/cy.svg

script.js:9 https://flagcdn.com/cz.svg

script.js:9 https://flagcdn.com/dk.svg

script.js:9 https://flagcdn.com/dj.svg

script.js:9 https://flagcdn.com/dm.svg

script.js:9 https://flagcdn.com/do.svg

script.js:9 https://flagcdn.com/ec.svg

script.js:9 https://flagcdn.com/eg.svg

script.js:9 https://flagcdn.com/sv.svg

script.js:9 https://flagcdn.com/gq.svg

script.js:9 https://flagcdn.com/er.svg

script.js:9 https://flagcdn.com/ee.svg

script.js:9 https://flagcdn.com/et.svg

script.js:9 https://flagcdn.com/fk.svg

script.js:9 https://flagcdn.com/fo.svg

script.js:9 https://flagcdn.com/fj.svg

script.js:9 https://flagcdn.com/fi.svg

script.js:9 https://flagcdn.com/fr.svg

script.js:9 https://flagcdn.com/gf.svg

script.js:9 https://flagcdn.com/pf.svg

script.js:9 https://flagcdn.com/tf.svg

script.js:9 https://flagcdn.com/ga.svg

script.js:9 https://flagcdn.com/gm.svg

script.js:9 https://flagcdn.com/ge.svg

script.js:9 https://flagcdn.com/de.svg

script.js:9 https://flagcdn.com/gh.svg

script.js:9 https://flagcdn.com/gi.svg

script.js:9 https://flagcdn.com/gr.svg

script.js:9 https://flagcdn.com/gl.svg

script.js:9 https://flagcdn.com/gd.svg

script.js:9 https://flagcdn.com/gp.svg

script.js:9 https://flagcdn.com/gu.svg

script.js:9 https://flagcdn.com/gt.svg

script.js:9 https://flagcdn.com/gg.svg

script.js:9 https://flagcdn.com/gn.svg

script.js:9 https://flagcdn.com/gw.svg

script.js:9 https://flagcdn.com/gy.svg

script.js:9 https://flagcdn.com/ht.svg

script.js:9 https://flagcdn.com/hm.svg

script.js:9 https://flagcdn.com/va.svg

script.js:9 https://flagcdn.com/hn.svg

script.js:9 https://flagcdn.com/hu.svg

script.js:9 https://flagcdn.com/hk.svg

script.js:9 https://flagcdn.com/is.svg

script.js:9 https://flagcdn.com/in.svg

script.js:9 https://flagcdn.com/id.svg

script.js:9 https://flagcdn.com/ci.svg

script.js:9 https://flagcdn.com/ir.svg

script.js:9 https://flagcdn.com/iq.svg

script.js:9 https://flagcdn.com/ie.svg

script.js:9 https://flagcdn.com/im.svg

script.js:9 https://flagcdn.com/il.svg

script.js:9 https://flagcdn.com/it.svg

script.js:9 https://flagcdn.com/jm.svg

script.js:9 https://flagcdn.com/jp.svg

script.js:9 https://flagcdn.com/je.svg

script.js:9 https://flagcdn.com/jo.svg

script.js:9 https://flagcdn.com/kz.svg

script.js:9 https://flagcdn.com/ke.svg

script.js:9 https://flagcdn.com/ki.svg

script.js:9 https://flagcdn.com/kw.svg

script.js:9 https://flagcdn.com/kg.svg

script.js:9 https://flagcdn.com/la.svg

script.js:9 https://flagcdn.com/lv.svg

script.js:9 https://flagcdn.com/lb.svg

script.js:9 https://flagcdn.com/ls.svg

script.js:9 https://flagcdn.com/lr.svg

script.js:9 https://flagcdn.com/ly.svg

script.js:9 https://flagcdn.com/li.svg

script.js:9 https://flagcdn.com/lt.svg

script.js:9 https://flagcdn.com/lu.svg

script.js:9 https://flagcdn.com/mo.svg

script.js:9 https://flagcdn.com/mk.svg

script.js:9 https://flagcdn.com/mg.svg

script.js:9 https://flagcdn.com/mw.svg

script.js:9 https://flagcdn.com/my.svg

script.js:9 https://flagcdn.com/mv.svg

script.js:9 https://flagcdn.com/ml.svg

script.js:9 https://flagcdn.com/mt.svg

script.js:9 https://flagcdn.com/mh.svg

script.js:9 https://flagcdn.com/mq.svg

script.js:9 https://flagcdn.com/mr.svg

script.js:9 https://flagcdn.com/mu.svg

script.js:9 https://flagcdn.com/yt.svg

script.js:9 https://flagcdn.com/mx.svg

script.js:9 https://flagcdn.com/fm.svg

script.js:9 https://flagcdn.com/md.svg

script.js:9 https://flagcdn.com/mc.svg

script.js:9 https://flagcdn.com/mn.svg

script.js:9 https://flagcdn.com/me.svg

script.js:9 https://flagcdn.com/ms.svg

script.js:9 https://flagcdn.com/ma.svg

script.js:9 https://flagcdn.com/mz.svg

script.js:9 https://flagcdn.com/mm.svg

script.js:9 https://flagcdn.com/na.svg

script.js:9 https://flagcdn.com/nr.svg

script.js:9 https://flagcdn.com/np.svg

script.js:9 https://flagcdn.com/nl.svg

script.js:9 https://flagcdn.com/nc.svg

script.js:9 https://flagcdn.com/nz.svg

script.js:9 https://flagcdn.com/ni.svg

script.js:9 https://flagcdn.com/ne.svg

script.js:9 https://flagcdn.com/ng.svg

script.js:9 https://flagcdn.com/nu.svg

script.js:9 https://flagcdn.com/nf.svg

script.js:9 https://flagcdn.com/kp.svg

script.js:9 https://flagcdn.com/mp.svg

script.js:9 https://flagcdn.com/no.svg

script.js:9 https://flagcdn.com/om.svg

script.js:9 https://flagcdn.com/pk.svg

script.js:9 https://flagcdn.com/pw.svg

script.js:9 https://flagcdn.com/ps.svg

script.js:9 https://flagcdn.com/pa.svg

script.js:9 https://flagcdn.com/pg.svg

script.js:9 https://flagcdn.com/py.svg

script.js:9 https://flagcdn.com/pe.svg

script.js:9 https://flagcdn.com/ph.svg

script.js:9 https://flagcdn.com/pn.svg

script.js:9 https://flagcdn.com/pl.svg

script.js:9 https://flagcdn.com/pt.svg

script.js:9 https://flagcdn.com/pr.svg

script.js:9 https://flagcdn.com/qa.svg

script.js:9 https://flagcdn.com/xk.svg

script.js:9 https://flagcdn.com/re.svg

script.js:9 https://flagcdn.com/ro.svg

script.js:9 https://flagcdn.com/ru.svg

script.js:9 https://flagcdn.com/rw.svg

script.js:9 https://flagcdn.com/bl.svg

script.js:9 https://flagcdn.com/sh.svg

script.js:9 https://flagcdn.com/kn.svg

script.js:9 https://flagcdn.com/lc.svg

script.js:9 https://flagcdn.com/mf.svg

script.js:9 https://flagcdn.com/pm.svg

script.js:9 https://flagcdn.com/vc.svg

script.js:9 https://flagcdn.com/ws.svg

script.js:9 https://flagcdn.com/sm.svg

script.js:9 https://flagcdn.com/st.svg

script.js:9 https://flagcdn.com/sa.svg

script.js:9 https://flagcdn.com/sn.svg

script.js:9 https://flagcdn.com/rs.svg

script.js:9 https://flagcdn.com/sc.svg

script.js:9 https://flagcdn.com/sl.svg

script.js:9 https://flagcdn.com/sg.svg

script.js:9 https://flagcdn.com/sx.svg

script.js:9 https://flagcdn.com/sk.svg

script.js:9 https://flagcdn.com/si.svg

script.js:9 https://flagcdn.com/sb.svg

script.js:9 https://flagcdn.com/so.svg

script.js:9 https://flagcdn.com/za.svg

script.js:9 https://flagcdn.com/gs.svg

script.js:9 https://flagcdn.com/kr.svg

script.js:9 https://flagcdn.com/es.svg

script.js:9 https://flagcdn.com/lk.svg

script.js:9 https://flagcdn.com/sd.svg

script.js:9 https://flagcdn.com/ss.svg

script.js:9 https://flagcdn.com/sr.svg

script.js:9 https://flagcdn.com/sj.svg

script.js:9 https://flagcdn.com/sz.svg

script.js:9 https://flagcdn.com/se.svg

script.js:9 https://flagcdn.com/ch.svg

script.js:9 https://flagcdn.com/sy.svg

script.js:9 https://flagcdn.com/tw.svg

script.js:9 https://flagcdn.com/tj.svg

script.js:9 https://flagcdn.com/tz.svg

script.js:9 https://flagcdn.com/th.svg

script.js:9 https://flagcdn.com/tl.svg

script.js:9 https://flagcdn.com/tg.svg

script.js:9 https://flagcdn.com/tk.svg

script.js:9 https://flagcdn.com/to.svg

script.js:9 https://flagcdn.com/tt.svg

script.js:9 https://flagcdn.com/tn.svg

script.js:9 https://flagcdn.com/tr.svg

script.js:9 https://flagcdn.com/tm.svg

script.js:9 https://flagcdn.com/tc.svg

script.js:9 https://flagcdn.com/tv.svg

script.js:9 https://flagcdn.com/ug.svg

script.js:9 https://flagcdn.com/ua.svg

script.js:9 https://flagcdn.com/ae.svg

script.js:9 https://flagcdn.com/gb.svg

script.js:9 https://flagcdn.com/us.svg

script.js:9 https://flagcdn.com/uy.svg

script.js:9 https://flagcdn.com/uz.svg

script.js:9 https://flagcdn.com/vu.svg

script.js:9 https://flagcdn.com/ve.svg

script.js:9 https://flagcdn.com/vn.svg

script.js:9 https://flagcdn.com/wf.svg

script.js:9 https://flagcdn.com/eh.svg

script.js:9 https://flagcdn.com/ye.svg

script.js:9 https://flagcdn.com/zm.svg

script.js:9 <https://flagcdn.com/zw.svg>

1. **Use the same rest countries and print all countries name, region, sub region and population?**

**Answer:**

Index.html

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta http-equiv="X-UA-Compatible" content="IE=edge">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Document</title>

    <script type="text/javascript" src="script.js"></script>

    <link rel="stylesheet" href="style.css" />

</head>

<body>

</body>

</html>

Script.js

var request= new XMLHttpRequest();

request.open('GET','https://restcountries.com/v2/all',true)

request.send();

request.onload=function(){

    var data=JSON.parse(request.response);

    console.log(data);

    for(var i=0; i<data.length; i++){

        console.log(data[i].name+" "+data[i].region+" "+data[i].subregion+" "+data[i].population)

    }

}

Output is

script.js:6 (250) [{…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, …]

script.js:9 Afghanistan Asia Southern Asia 38928341

script.js:9 Åland Islands Europe Northern Europe 28875

script.js:9 Albania Europe Southern Europe 2837743

script.js:9 Algeria Africa Northern Africa 43851043

script.js:9 American Samoa Oceania Polynesia 55197

script.js:9 Andorra Europe Southern Europe 77265

script.js:9 Angola Africa Middle Africa 32866268

script.js:9 Anguilla Americas Caribbean 13452

script.js:9 Antarctica Polar Antarctica 1000

script.js:9 Antigua and Barbuda Americas Caribbean 97928

script.js:9 Argentina Americas South America 45376763

script.js:9 Armenia Asia Western Asia 2963234

script.js:9 Aruba Americas Caribbean 106766

script.js:9 Australia Oceania Australia and New Zealand 25687041

script.js:9 Austria Europe Central Europe 8917205

script.js:9 Azerbaijan Asia Western Asia 10110116

script.js:9 Bahamas Americas Caribbean 393248

script.js:9 Bahrain Asia Western Asia 1701583

script.js:9 Bangladesh Asia Southern Asia 164689383

script.js:9 Barbados Americas Caribbean 287371

script.js:9 Belarus Europe Eastern Europe 9398861

script.js:9 Belgium Europe Western Europe 11555997

script.js:9 Belize Americas Central America 397621

script.js:9 Benin Africa Western Africa 12123198

script.js:9 Bermuda Americas Northern America 63903

script.js:9 Bhutan Asia Southern Asia 771612

script.js:9 Bolivia (Plurinational State of) Americas South America 11673029

script.js:9 Bonaire, Sint Eustatius and Saba Americas Caribbean 17408

script.js:9 Bosnia and Herzegovina Europe Southern Europe 3280815

script.js:9 Botswana Africa Southern Africa 2351625

script.js:9 Bouvet Island Antarctic Ocean South Antarctic Ocean 0

script.js:9 Brazil Americas South America 212559409

script.js:9 British Indian Ocean Territory Africa Eastern Africa 3000

script.js:9 United States Minor Outlying Islands Americas Northern America 300

script.js:9 Virgin Islands (British) Americas Caribbean 30237

script.js:9 Virgin Islands (U.S.) Americas Caribbean 106290

script.js:9 Brunei Darussalam Asia South-Eastern Asia 437483

script.js:9 Bulgaria Europe Eastern Europe 6927288

script.js:9 Burkina Faso Africa Western Africa 20903278

script.js:9 Burundi Africa Eastern Africa 11890781

script.js:9 Cambodia Asia South-Eastern Asia 16718971

script.js:9 Cameroon Africa Middle Africa 26545864

script.js:9 Canada Americas Northern America 38005238

script.js:9 Cabo Verde Africa Western Africa 555988

script.js:9 Cayman Islands Americas Caribbean 65720

script.js:9 Central African Republic Africa Middle Africa 4829764

script.js:9 Chad Africa Middle Africa 16425859

script.js:9 Chile Americas South America 19116209

script.js:9 China Asia Eastern Asia 1402112000

script.js:9 Christmas Island Oceania Australia and New Zealand 2072

script.js:9 Cocos (Keeling) Islands Oceania Australia and New Zealand 550

script.js:9 Colombia Americas South America 50882884

script.js:9 Comoros Africa Eastern Africa 869595

script.js:9 Congo Africa Middle Africa 5518092

script.js:9 Congo (Democratic Republic of the) Africa Middle Africa 89561404

script.js:9 Cook Islands Oceania Polynesia 18100

script.js:9 Costa Rica Americas Central America 5094114