Weekly Test – 06

Sample Input & Output

1. 'findCountryByName(countryName, countries)'

   Input: `print(findCountryByName('india', countries))`

   Expected Output: `('India', 'New Delhi', 'Asia')`

2. 'getAllCodes(allUnivs)'

   Input: `print(getAllCodes(allUnivs))`

   Expected Output:
```
dict_keys(['TDEG', 'CBPR', 'SBXL', 'CTVT',
'ARSX', 'VCNF', 'AGON', 'OIOY', 'UPIB', 'XDCQ', 'YOUD',
'ZUIF', 'JDBS', 'IEOJ', 'GFBA', 'KYAQ', 'YADT', 'YRRV',
'YKYZ', 'GSHV', 'GRXQ', 'ISRL', 'FKCK', 'PWZD', 'JRFB',
'FXGR', 'VPPB', 'KNYG', 'HGLJ', 'HQLO', 'WUJO', 'DWYC',
'RRWA', 'RZOU', 'ZTND', 'HAYS', 'JXVG', 'MVPR', 'SLWT',
'CZEG', 'IKAQ', 'YGZH', 'QQRH', 'XVMI', 'LYTB', 'ISTQ',
'PPIS', 'OPDS', 'CLMB', 'ZZUH', 'UHOI', 'GNTP', 'MJQW',
'YEJI', 'OTTE', 'SHZX', 'KJVT', 'SOTY', 'MZDG', 'VISE',
'JTEZ', 'NDAN', 'YJBC', 'UEQW', 'DIBN', 'IJVJ', 'ECTX',
'KEEF', 'PBST', 'JEBR', 'FXML', 'AZLR', 'XYFL', 'OSVY',
'GRGT', 'EQNG', 'TMQF', 'LAGA', 'IUAA', 'VPNN', 'POLK',
'SMJK', 'FOSJ', 'GPKM', 'UULK', 'BQMQ', 'RLIS', 'LYZP',
'ZFUO', 'NJDZ', 'BRGQ', 'BXVP', 'XJMX', 'YJBX', 'QRPK',
'XDXZ', 'SBCU', 'XSWD', 'TYSY', 'ACYE'])
```

3. 'getDistinctCountries(allUnivs)',

   Input: `print(getDistinctCountries(allUnivs))`

   Expected Output:
```
{'USA', 'Japan', 'Canada', 'Switzerland',
'South Korea', 'Israel', 'United Kingdom', 'Sweden',
'Netherlands', 'Singapore', 'Norway', 'China', 'France',
'Germany', 'Denmark', 'Australia', 'Taiwan'}
```

4. 'getDistinctContinents(allUnivs)'

   Input: `print(getDistinctContinents(allUnivs))`

   Expected Output:
```
{'North America', 'Asia', 'Europe',
'Australia'}
```

5. 'getTopIntRank(countryName, allUnivs)'

   Input: `print(getTopIntRank('Germany', allUnivs))`

Expected Output: `('44', 'Ludwig Maximilian University of Munich')`

6. 'getTopNatRank(countryName, allUnivs)',
   Input: `print(getTopNatRank('Japan', allUnivs))`
   Expected Output: `('1', 'University of Tokyo')`

7. 'getAvgScore(countryName, allUnivs)'
   Input: `print(getAvgScore('United Kingdom', allUnivs))`
   Expected Output: `86.86`

8. 'getRelativeScoreContinent(countryName, allUnivs)'
   Input: `print(getRelativeScoreContinent('United Kingdom', allUnivs))`
   Expected Output: `92.31`

9. 'getUnivWithCapital(countryName, allUnivs)'
   Input: `print(getUnivWithCapital('Japan', allUnivs))`
   Expected Output: `['JDBS']`

10. 'studyInOnePlace(countryName, degrees, budget, allUnivs)'
    Input: `print(studyInOnePlace('Japan', ['Diploma', 'PhD'], 25000, allUnivs))`
    Expected Output: `['LAGA', 'SBCU']`

11. 'studyInTwoPlaces(firstCode, firstDegree, secondCode, secondDegree, budget, allUnivs)'
    Input: `print(studyInTwoPlaces('JDBS', 'Diploma', 'OTTE', 'PhD', 40000, allUnivs))`
    Expected Output: `True`

Note: The requirement explanation available in the below link

----------> https://youtu.be/BZItgBY5D8A?si=AE_O0DtTl_-BtXdb <----------