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```
//APCSP2021 Project
    //Global Variable Declarations
    var countriesList =qetColumn("World Happiness Report 2019", "Country or region");
    var overallScoresList =getColumn("World Happiness Report 2019", "Score");
    var overallRanksList =qetColumn("World Happiness Report 2019", "Overall rank");
    var gDPPerCapitaScoresList =getColumn("World Happiness Report 2019", "GDP per capita");
    var socialSupportScoresList =getColumn("World Happiness Report 2019", "Social support");
    var healthyLifeExpectancyScoresList =getColumn("World Happiness Report 2019", "Healthy life expectancy");
    var country="";
10
    var score=0;
    var rank="";
11
12
    var index=0;
    var worseCountries = 0;
14
15
16
    //Event Handlers
    onEvent("nextButton1", "click", function() {
17
        setScreen("selectionScreen");
18
19
    });
    onEvent("nextButton2", "click", function() {
20
21
        setScreen("rankingComparisonScreen");
22
    });
    onEvent("backButton2", "click", function() {
23
24
        setScreen("informationScreen");
25
    });
    onEvent("backButton3", "click", function() {
27
        setScreen("selectionScreen");
28
    });
    onEvent("countriesDropdown", "change", function() {
30
        country = getText("countriesDropdown");
31
        findRankingAndScore();
        setText("outputGDPPerCapitaRanking", betterThan(gDPPerCapitaScoresList[index],gDPPerCapitaScoresList));
32
33
        setText("outputSocialSupportRanking", betterThan(socialSupportScoresList[index],socialSupportScoresList));
34
        setText("outputHealthyLifeExpectancyRanking", betterThan(healthyLifeExpectancyScoresList[index],healthyLifeExpectancyScoresList));
35
    onEvent("randomCountryButton", "click", function() {
36
        index= randomNumber(0, countriesList.length-1);
37
38
        country=countriesList[index];
        findRankingAndScore();
39
40
        setText("countriesDropdown", country);
        setText("outputGDPPerCapitaRanking", betterThan(gDPPerCapitaScoresList[index],gDPPerCapitaScoresList));
41
42
        setText("outputSocialSupportRanking", betterThan(socialSupportScoresList[index],socialSupportScoresList));
43
        setText("outputHealthyLifeExpectancyRanking", betterThan(healthyLifeExpectancyScoresList[index],healthyLifeExpectancyScoresList));
44
    });
45
    //Function Declarations
47
    //Displays the overall ranking and overall score of the country on the outputCountryRanking
    //element by traversing through the countriesList to find the index of the country and
```

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          //corresponding rank and score and the same index on the overallRanksList and overallScoresList
      52
          function findRankingAndScore() {
            for (var i = 0; i < countriesList.length; i++) {</pre>
      54
              if (country==countriesList[i]) {
      55
                index = i;
      56
                rank = overallRanksList[i];
      57
                score = overallScoresList[i];
      58
      59
      60
            setText("outputCountryRanking", "This country was ranked number "+rank+" and has a score of "+score+" out of 10 in the World Happiness Report of 2019 for the happiness of its inhabitants.");
      61
      62
          //Displays the number of countries the current country is better than and its rank in all countries
      63
          //based on the score of the country and the full list of all scores in that category
      64
          //score {number} - the country's score in the specific category desired
          //list {list of numbers} - scores of all countries in the specific category desired
          //return {string} - displays the rank of the country and how many countries it is better than
      67
          function betterThan(score,list) {
      68
            worseCountries = 0;
      69
            for (var i = 0; i < list.length; i++) {
      70
              if (list[i]<score) {</pre>
      71
                worseCountries = worseCountries+1;
      72
      73
      74
            if (worseCountries==0) {
      75
              return "This country is unfortunately ranked last in this category.";
      76
            } else if (worseCountries==155) {
      77
              return "This country is ranked first in this category!";
      78
              return ("This country is ranked at number "+(156-worseCountries))+ " and is better than "+ worseCountries+ " countries in this category.";
      79
      80
      81
      82
          //the image used in this app came from:
          //worldHappinessReportImg- https://www.comunicaffe.com/for-the-5th-consecutive-year-illycaffe-is-a-partner-of-the-world-happiness-report/
          //the original image came from research from:
          //https://www.happinessresearchinstitute.com/blog/categories/reports
          //the dataset used in this app came from:
          //World Happiness Report- https://www.kaggle.com/unsdsn/world-happiness?select=2019.csv
          //the original research for the dataset comes from:
          //https://worldhappiness.report/ed/2019/#appendices-and-data
```

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