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// Ethics Final Project
// 12/1/22
// The best way to view this file is with the link below
//https://studio.code.org/projects/applab/0B9sDkTWAh6FiVIqJ1AVrvAB_LLu9AiY0Y3GWilOMrg
// For this file to run properly you will also need to install the HTML/CSS and assets in the folder with it.

//Basic stats for race, income level
var race = ["white","black","hispanic"];
var racePercent = [80,71,65];
var relativeRacePer=findRelativePer(racePercent);

var income = ["high(+100k)","mid","low(<$30k)"];
var incomePercent = [93,83,57];
var relativeIncomePer=findRelativePer(incomePercent);

var area = ["rural","suburban","urban"];
var areaPercent = [72,79,77];
var relativeAreaPer=findRelativePer(areaPercent);

//Variable used to store relative percent with broadband for each demographic, calculated later in the program
var relativePickPer = [];



//The folloing lines of code set up the radio check boxes and their lables using the lists declared above
onEvent("warningOKbutton", "click", function( ) {
  setScreen("usCheckBoxScreen");
  for (var i = 0; i < 3; i++) {
    radioButton(income[i], false, "incomeRB");
    setPosition(income[i], (i+1)*80, 140, 15, 15);
    textLabel("incLabel"+i, income[i]);
    setPosition("incLabel"+i, (i+1)*80-20, 120, 0, 0);
    setPosition("incLabel0", 40, 120, 0, 0);
  }
  for (var i = 0; i < 3; i++) {
    radioButton(area[i], false, "areaRB");
    setPosition(area[i], (i+1)*80, 200, 15, 15);
    textLabel("areaLabel"+i, area[i]);
    setPosition("areaLabel"+i, (i+1)*80-20, 180, 0, 0);
  }
  for (var i = 0; i < 3; i++) {
    radioButton(race[i], false, "raceRB");
    setPosition(race[i], (i+1)*80, 260, 15, 15);
    textLabel("raceLabel"+i, race[i]);
    setPosition("raceLabel"+i, (i+1)*80-20, 240, 0, 0);
  }

});
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//This determines which radio boxes are selected and then calculates the relative percent chance
onEvent("submitBut", "click", function( ) {
  relativePickPer = [];
  var a = 0;
  while (a < race.length && !getChecked(race[a])) {
     a++;
  }
  console.log(race[a]);
  console.log(relativeRacePer[a]);
  relativePickPer.push(relativeRacePer[a]);

  var b = 0;
  while (b < area.length && !getChecked(area[b])) {
     b++;
  }
  console.log(area[b]);
  relativePickPer.push(relativeAreaPer[b]);
  var c = 0;
  while (c < income.length && !getChecked(income[c])) {
     c++;
  }
  console.log(income[c]);
  relativePickPer.push(relativeIncomePer[c]);
  console.log(relativePickPer);
  var combinedRelativePer=1;
  for (var i = 0; i < 3; i++) {
    var combinedRelativePer = combinedRelativePer*relativePickPer[i];
  }
  combinedRelativePer = Math.floor(combinedRelativePer*100);
  var textOut = "Relative to a white, suburban, high-income individual, someone with the demographics you
selected would be ";
  textOut = textOut+ " " +(combinedRelativePer)+ "% as likely to have broadband internet at home";
  console.log(combinedRelativePer);
  setText("relativeOutputUS", textOut);

});


//Math calculating relative percent chance.  This assumes that the probabilites are independent events whcih
they are almost certainly not.
function findRelativePer(percentList) {
  var relativePer = [];
  var maxVal = Math.max(percentList[0],percentList[1],percentList[2]);
  for(var i=0; i<3; i++){
    relativePer.push(percentList[i]/maxVal);
  }
  return relativePer;
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}

//Presents text data for the selected continent's internet availability
onEvent("AFbutton", "click", function( ) {
  setText("worldOutputText", "In 2022, 46.8 % of people in Africa had access to the internet.");
});

onEvent("SAbutton", "click", function( ) {
  setText("worldOutputText", "In 2022, 81.8 % of people in South America had access to the internet.");
});

onEvent("NAbutton", "click", function( ) {
  setText("worldOutputText", "In 2022, 93.4 % of people in North America had access to the internet.");
});

onEvent("OCbutton", "click", function( ) {
  setText("worldOutputText", "In 2022, 71.5% of people in Oceania had access to the internet.");
});

onEvent("EUbutton", "click", function( ) {
  setText("worldOutputText", "In 2022, 89.6 % of people in Europe had access to the internet.");
});
onEvent("ASbutton", "click", function( ) {
  setText("worldOutputText", "In 2022, 67.4 % of people in Asia had access to the internet.");
});
// home button on each page returns to the starting home page
onEvent("home1", "click", function( ) {
  setScreen("home");
});
onEvent("home2", "click", function( ) {
  setScreen("home");
});
onEvent("home3", "click", function( ) {
  setScreen("home");
});
onEvent("worldButton", "click", function( ) {
  setScreen("worldScreen");
});
onEvent("usButton", "click", function( ) {
  setScreen("warning");
});
```