



APP INVENTOR

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← Lesson_4_Predictions_template

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Screens:

Screen1

[Designer](#) [Blocks](#)

Built-in

Control

Logic

Math

Text

Lists

Dictionaries

Colors

Variables

Procedures

Screen1

SpacerHorizontal

Rename Delete

when lineOfBestFitButton .Click
do open another screen screenName drawLOBFscreen

when cleanDataButton .Click
do open another screen screenName cleanDataScreen

when makePredictionsButton .Click
do open another screen screenName makePredictionsScreen



Show Warnings

Media

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Screens: cleanDataScreen + - ⚙️ 🌐 Designer Blocks

Built-in

- Control
- Logic
- Math
- Text
- Lists
- Dictionaries
- Colors
- Variables
- Procedures

cleanDataScreen

HorizontalArrang

when homeButton .Click
do open another screen screenName [Screen1]

when showDataButton .Click
do call cleanedChartData2D .Clear
call dataCleaningChartData2D .Clear
call spreadsheet1 .ReadSheet
sheetName [Spirit Lake]

when spreadsheet1 .GoToSheetData
sheetData
do set topCharLabel [Text] to [*Spirit Lake, Orleans, Iowa*]
call cleanedChartData2D .ImportFromSpreadsheet
spreadsheet [spreadsheet1]
xColumn [Year]
yColumn [Ice]
useHeaders [true]
call dataCleaningChartData2D .ImportFromSpreadsheet
spreadsheet [spreadsheet1]
xColumn [Year]
yColumn [Ice]
useHeaders [true]

when drawLineOfBestFitButton .Click
do set Trendline1 [ChartData] to [cleanedChartData2D]

when detectAnomaliesButton .Click
do call dataCleaningChartData2D .HighlightDataPoints
dataPoints [call AnomalyDetection1 [DetectAnomaliesInChartData]]
chartData [dataCleaningChartData2D]
threshold [2]

when dataCleaningChartData2D .EntryClick
do if [is in list? thing [] make a list [get x] [get y]]
list [call AnomalyDetection1 [DetectAnomaliesInChartData]]
chartData [dataCleaningChartData2D]
threshold [2]
then call dataCleaningChartData2D .RemoveEntry
x [get x]
y [get y]
call [cleanedChartData2D] .Clear
call [cleanedChartData2D] .ImportFromList
list [call dataCleaningChartData2D [GetAllEntries]]

when Trendline1 .Updated
results
do set topSlopeValueLabel [Text] to [Trendline1 [LinearCoefficient]]
set topY_intValueLabel [Text] to [Trendline1 [YIntercept]]
set topCorrCoeffValueLabel [Text] to [Trendline1 [CorrelationCoefficient]]

Rename Delete Show Warnings

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← Lesson_4_Predictions_template Donate to App Inventor Screens: drawLOBFscreen + - ⚙️ 🌐

Built-in

- Control
- Logic
- Math
- Text
- Lists
- Dictionaries
- Colors
- Variables
- Procedures

drawLOBFscreen

HorizontalArrang

when homeButton .Click
do open another screen screenName [Screen1]

when showDataButton .Click
do call topChartData2D .Clear
call bottomChartData2D .Clear
call spreadsheet1 .ReadSheet
sheetName [Spirit Lake]

when spreadsheet1 .GotSheetData
sheetData
do set topChartLabel .Text to [Spirit Lake, Orleans, Iowa]
call topChartData2D .ImportFromSpreadsheet
spreadsheet [spreadsheet1]
xColumn [Year]
yColumn [Ice]
useHeaders [true]
call bottomChartData2D .ImportFromSpreadsheet
spreadsheet [spreadsheet1]
xColumn [Year]
yColumn [Temp]
useHeaders [true]

when drawLineOfBestFitButton .Click
do set topTrendline . . ChartData to [topChartData2D]
set bottomTrendline . . ChartData to [bottomChartData2D]
set topSlopeValueLabel . . Text to [topTrendline . . LinearCoefficient]
set topY_intValueLabel . . Text to [topTrendline . . YIntercept]
set topCor_coefValueLabel . . Text to [topTrendline . . CorrelationCoefficient]
set bottomSlopeValueLabel . . Text to [bottomTrendline . . LinearCoefficient]
set bottomY_intValueLabel . . Text to [bottomTrendline . . YIntercept]
set bottomCor_coefValueLabel . . Text to [bottomTrendline . . CorrelationCoefficient]

Rename Delete Show Warnings

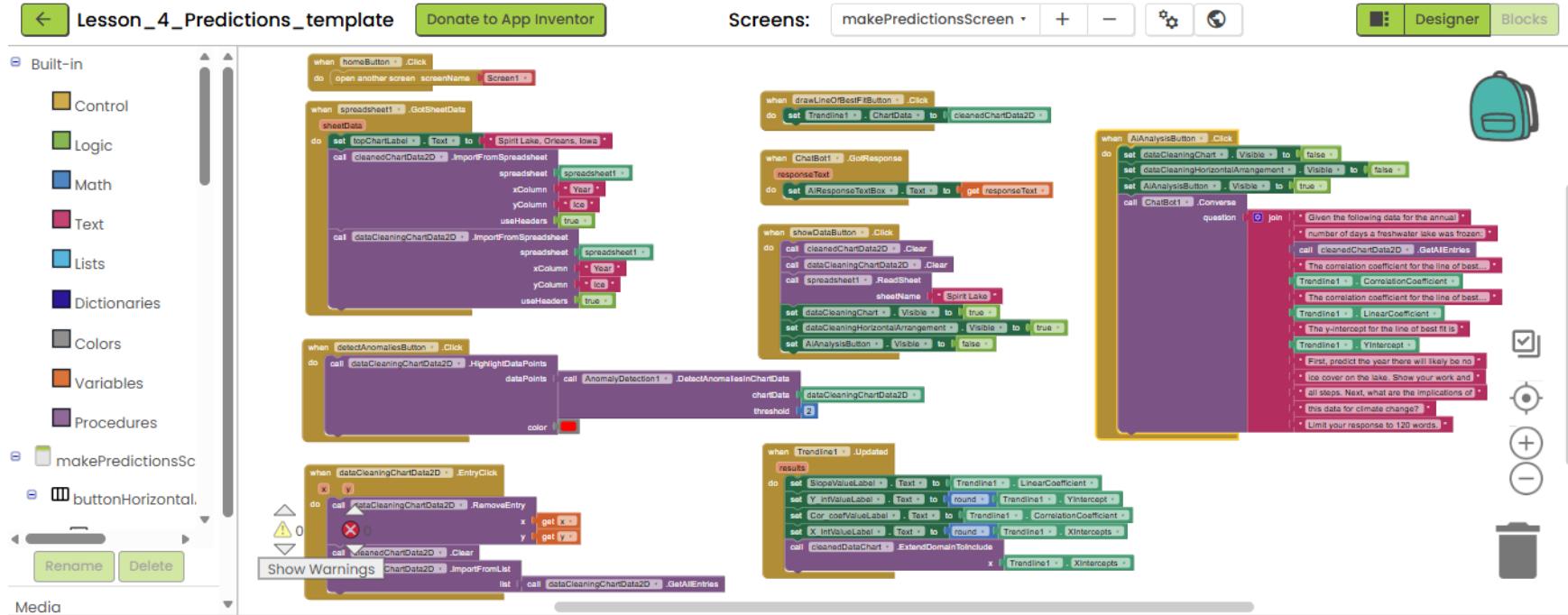
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Screens: makePredictionsScreen + - ⚙️ 🌐

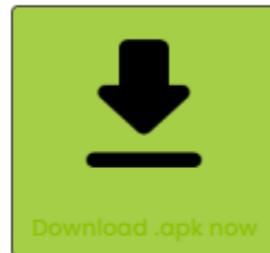
Designer Blocks



The screenshot shows the MIT App Inventor Designer interface with the following details:

- Left Sidebar:** Built-in categories: Control, Logic, Math, Text, Lists, Dictionaries, Colors, Variables, Procedures.
- Project Structure:** makePredictionsSc, buttonHorizontal.
- Code View:** The main area displays several code blocks for different events:
 - when homeButton.Click:** Open another screen named Screen1.
 - when spreadsheet1.GotSheetData:** Import data from a spreadsheet named "Spirit Lake, Orleans, Iowa".
 - when drawLineOfBestFitButton.Click:** Set Trendline1.ChartData to cleanedChartData2D.
 - when ChatBot1.GoResponse:** Set AIResponseTextBox.Text to get responseText.
 - when showDataButton.Click:** Clear cleanedChartData2D, ReadSheet, and set sheetName to "Spirit Lake".
 - when detectedAnomaliesButton.Click:** Call AnomalyDetection1.DetectAnomaliesInChartData with chartData as cleanedChartData2D and threshold as 2.
 - when dataCleaningChartData2D.EntryClick:** Remove entry at index 0, clear cleanedChartData2D, and import data from a list.
 - when Trendline1.Updated:** Set various labels (SlopeValueLabel, YintValueLabel, CorCoefValueLabel, XintValueLabel) to their respective values from Trendline1.
- Right Sidebar:** Includes icons for a backpack, a pencil, a plus sign, a minus sign, and a trash can.

Android App for Lesson_4_Predictions_template



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