

&lt; 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

Media



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**



Lesson\_4\_Predictions\_template

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Screens:

cleanDataScreen ▾

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cleanDataScreen

HorizontalArrang

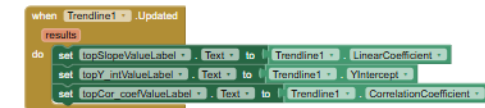
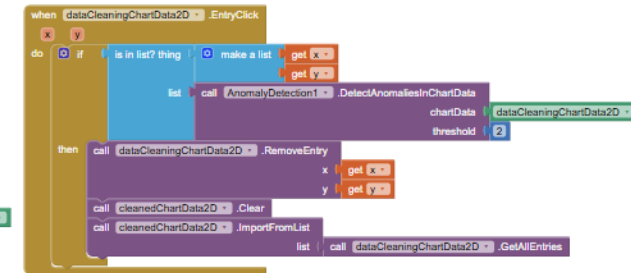
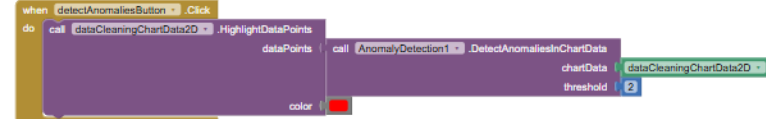
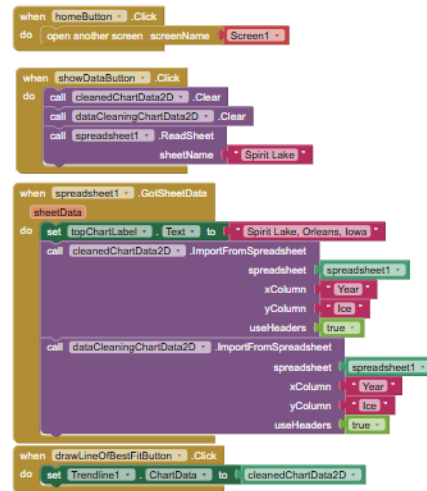
Rename

Delete

Media



Show Warnings



- Built-in
- Control
  - Logic
  - Math
  - Text
  - Lists
  - Dictionaries
  - Colors
  - Variables
  - Procedures
- drawLOBFscreen
- HorizontalArrang
- Rename Delete
- Media

```

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
  
```

0 0

Show Warnings

```

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
  
```



Lesson\_4\_Predictions\_template

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Screens:

makePredictionsScreen ▾

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Designer

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Built-in

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Logic

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Text

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Dictionaries

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Procedures

makePredictionsSc

buttonHorizontal.

Rename

Delete

Media

when homeButton.Click

do open another screen: screenName (Screen1)

when spreadsheet1.GetSheetData

do set topChartLabel.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 detectAnomaliesButton.Click

do call dataCleaningChartData2D.HighlightDataPoints

dataPoints

call AnomalyDetection1.DetectAnomaliesInChartData

chartData dataCleaningChartData2D

threshold 2

color

when dataCleaningChartData2D.EntryClick

do call dataCleaningChartData2D.RemoveEntry

x get x

y get y

call cleanedChartData2D.Clear

Show Warnings

ChartData2D.ImportFromList

list call dataCleaningChartData2D.GetAllEntries

when drawLineOfBestFitButton.Click

do set Trendline1.ChartData to cleanedChartData2D

when ChatBot1.GetResponse

do set AIResponseTextBox.Text to get responseText

when showDataButton.Click

do call cleanedChartData2D.Clear

call dataCleaningChartData2D.Clear

call spreadsheet1.ReadSheet

sheetName Spirit Lake

set dataCleaningChart.Visible to true

set dataCleaningHorizontalArrangement.Visible to true

set AIAnalysisButton.Visible to false

when Trendline1.Updated

do set SlopeValueLabel.Text to Trendline1.LinearCoefficient

set YInterceptLabel.Text to round Trendline1.YIntercept

set CorrelationCoefficientLabel.Text to round Trendline1.CorrelationCoefficient

set XInterceptsLabel.Text to round Trendline1.XIntercepts

call cleanedDataChart.ExtendDomainToInclude

x Trendline1.XIntercepts

when AIAnalysisButton.Click

do set dataCleaningChart.Visible to false

set dataCleaningHorizontalArrangement.Visible to false

set AIAnalysisButton.Visible to true

call ChatBot1.Converse

question

join

Given the following data for the annual

number of days a freshwater lake was frozen

call cleanedChartData2D.GetAllEntries

The correlation coefficient for the line of best fit

Trendline1.CorrelationCoefficient

The correlation coefficient for the line of best fit is

Trendline1.LinearCoefficient

The y-intercept for the line of best fit is

Trendline1.YIntercept

First, predict the year there will likely be no

ice cover on the lake. Show your work and

all steps. Next, what are the implications of

this data for climate change?

Limit your response to 120 words.

## Android App for Lesson\_4\_Predictions\_template

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**Click the button to download the app, right-click on it to copy a download link, or scan the code with a barcode scanner to install.**

Note: this link and barcode are only valid for 2 hours. See [the FAQ](#) for info on how to share your app with others.

Dismiss