

Screens:

Screen1

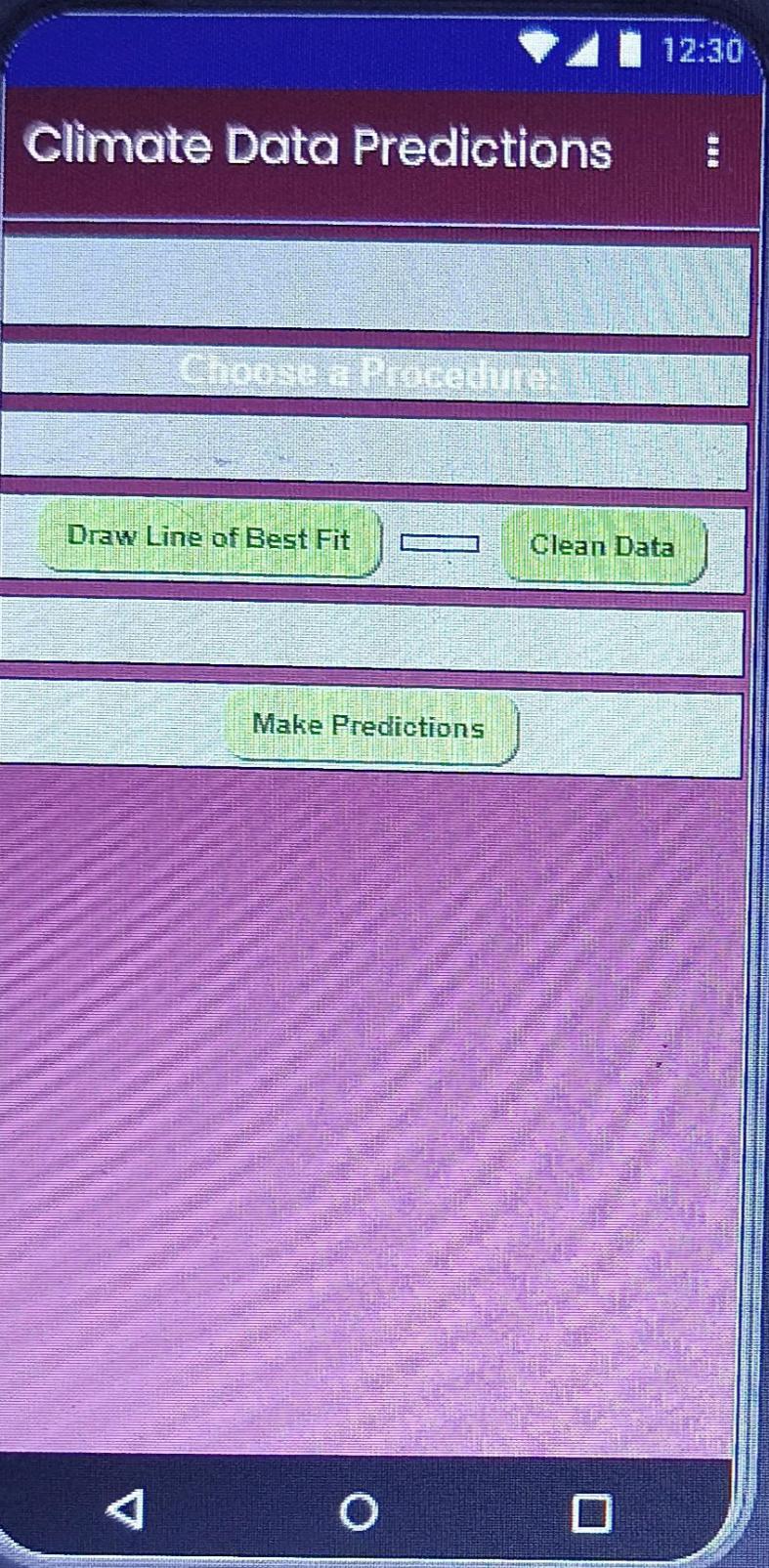
+



Phone (320 x 650)



Android 6+ (Material)



[Projects](#)[Connect](#)[Build](#)[Settings](#)[Help](#)[English](#)[Screen](#)

```
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]
```

Projects Connect Build Settings Help English sofia trujillo

Screens: cleanDataScreen + - ⚙️ ⚙️

Phone (320 x 650) Android 6+ (Material)

Climate Data: Cleaning the Data

Home Show Data

Detect Anomalies Draw Line of Best Fit

Data Cleaning: Click on anomalies in this window to remove

3
2
1
0

1 2 3 4

3
2
1
0

1 2 3 4

M = B = R =

Non-visible components

spreadsheet AnomalyDetection1

cleanDataScreen

HorizontalArrangement1

homeButton

SpacerVertical1

showDataButton

HorizontalArrangement2

detectAnomalies

SpacerVertical2

drawLineOfBestFit

LineHorizontalArrangement1

topChartLabel

HorizontalArrangement3

Rename Delete

Media

app-inve...00f9.json

Upload File...

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dictionaries_template

Donate to App Inventor

Screens: cleanDataScreen + - ⚙️ ⚙️

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 .GotSheetData
sheetData
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 drawLineOfBestFitButton .Click
do set Trendline1 .ChartData to cleanedChartData2D

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

when dataCleaningChartData2D .EntryClick
x y
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

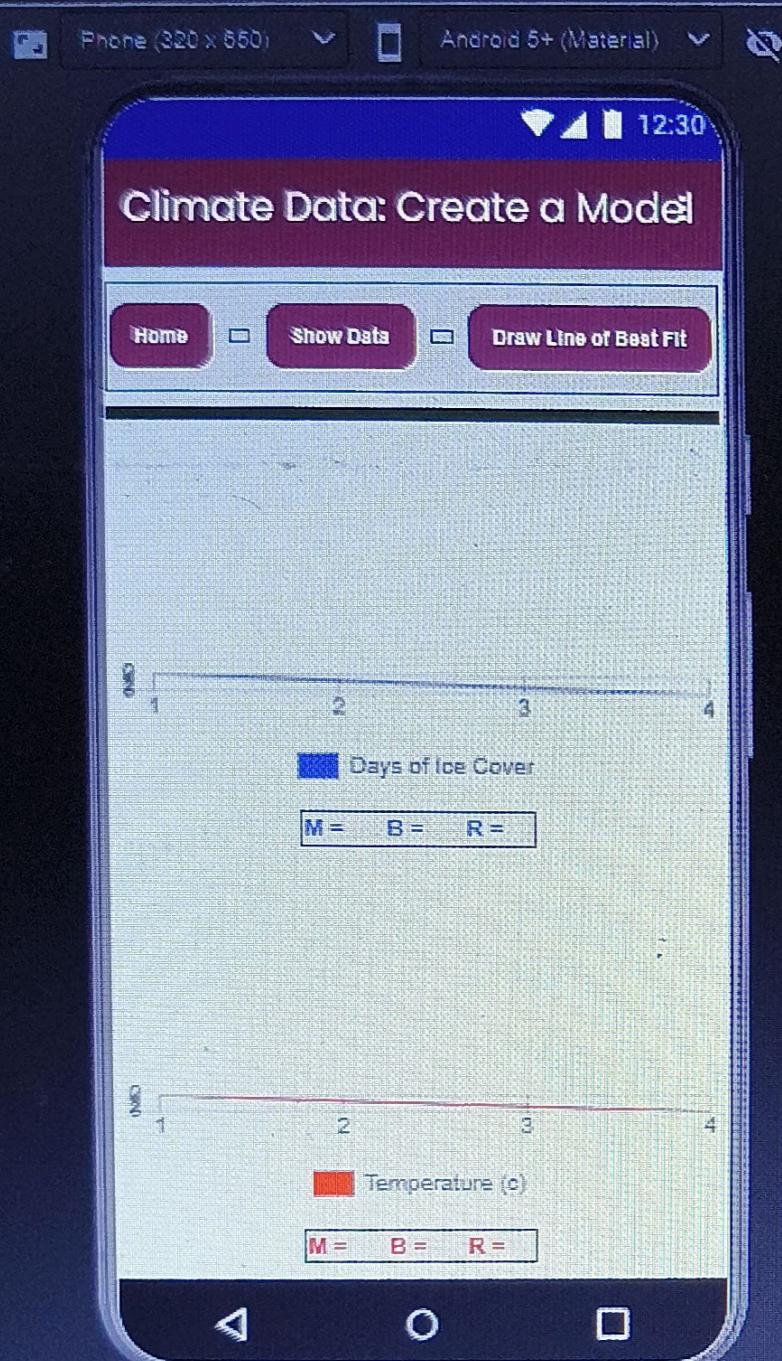
when Trendline1 .Updated
results
do set topSlopeValueLabel .Text to Trendline1 .LinearCoefficient
set topY_intValueLabel .Text to Trendline1 .YIntercept
set topCor_coefValueLabel .Text to Trendline1 .CorrelationCoefficient



Show Warnings

Screens:

drawLOBscreen



- drawLOBscreen
- HorizontalArrangement
- homeButton
- SpacerVertical
- showDataButton
- SpacerVertical
- drawLineOfBestFit
- LineHorizontalArrangement
- topChartLabel
- topChart
- topChartData
- topTrendline

Rename Delete

Media

app-inve_00f9.json

Upload File ...

Non-visible components

spreadsheet1

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repo=http://appinventor.mit.edu/Fyrtoolkit%2FyriaFiles%2FDataScience%2FLesson_4_Predictions_template.asc#583868... | 🔎 | ⭐ | 🗑

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Projects Connect Build Settings Help English

Screens: drawLOBscreen + - ⚙️ 🌐

```
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
```

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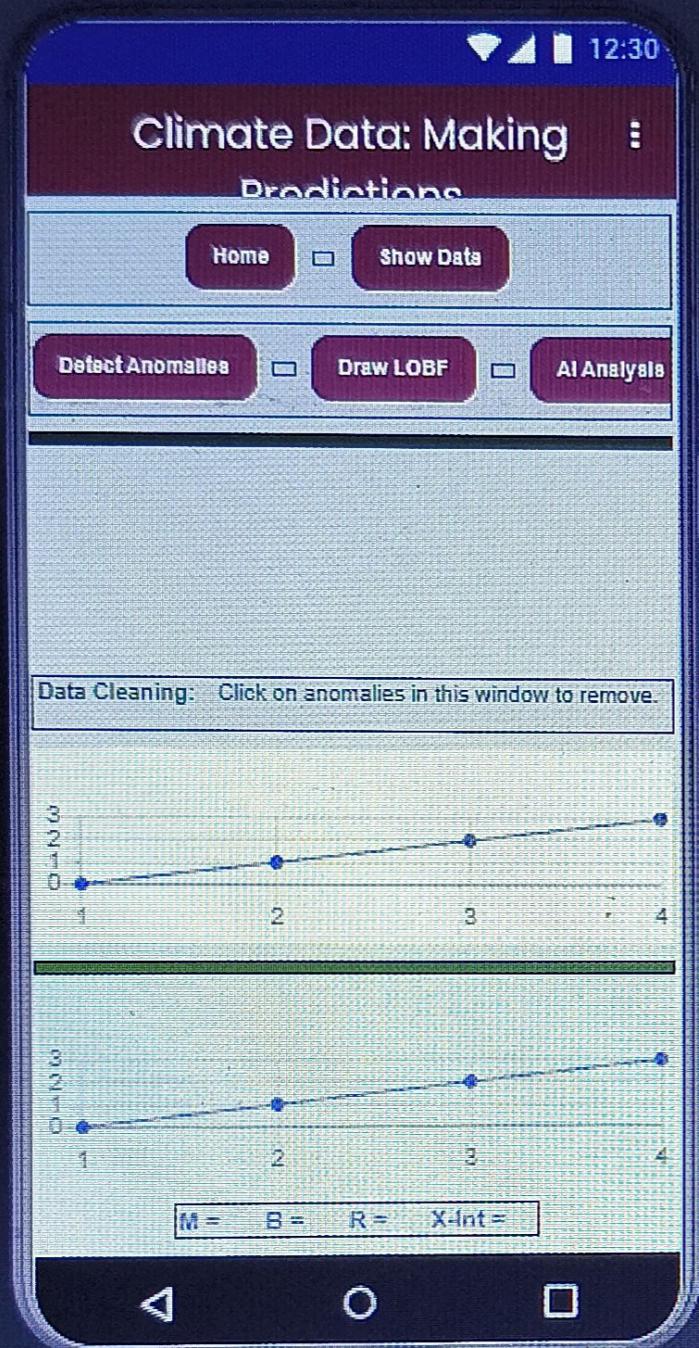
Screens

makePredictionsScreen



Phone 320 x 660

Android 8+ (Material)



Non-visible components



spreadsheet1 AnomalyDetection1 ChatBot1

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Projects Connect Build Settings

Screens makePredictionsScreen + - ⚙️ 🌐

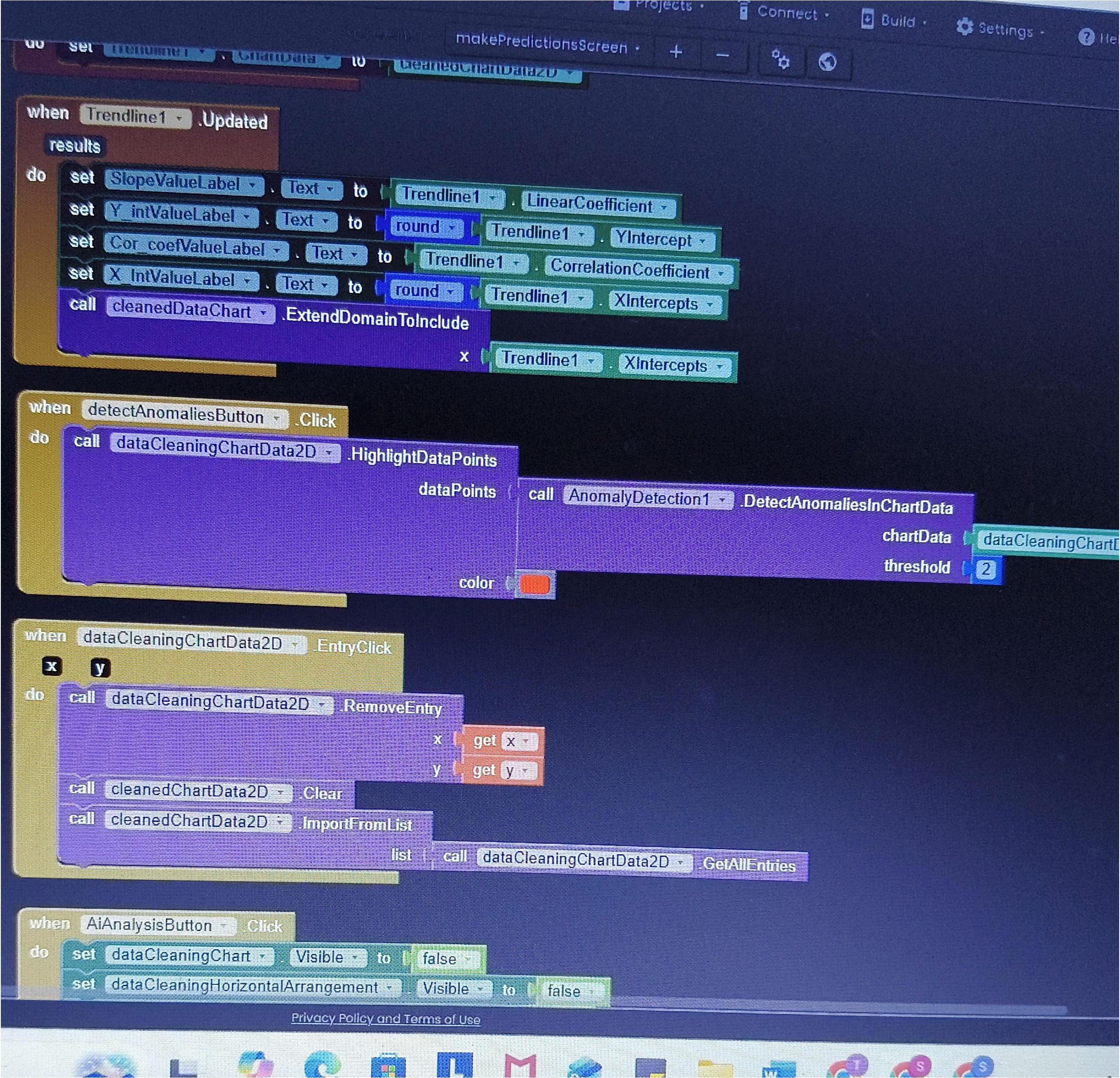
```
when homeButton.Click
do open another screen screenName Screen1
```

```
when showDataButton.Click
do call cleanedChartData2D.Clear
call dataCleaningChartData2D.Clear
call spreadsheet1.ReadSheet
sheetName "Spirit Lake"
```

```
when spreadsheet1.GotSheetData
sheetData
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 drawLineOfBestFitButton.Click
do set Trendline1.ChartData to cleanedChartData2D
```

```
when Trendline1.Updated
redraw
```



makePredictionsScreen

list call dataCleaningChartData2D .GetAllEntries

when AiAnalysisButton .Click

do set dataCleaningChart .Visible to false
set dataCleaningHorizontalArrangement .Visible to false
set AiResponseHorizontalArrangement .Visible to true

call ChatBot1 .Converse

question join " Dado los siguientes datos para el numero anual "
" Numero de dias que un lago de agua dulce estuvo ... "
call cleanedChartData2D .GetAllEntries
" el coeficiente de correlacion para la linea de m... "
Trendline1 . CorrelationCoefficient
" la pendiente de la linea de mejor ajuste es... "
Trendline1 . LinearCoefficient
" la interseccion en Y para la linea de mejor ajus... "
Trendline1 . YIntercept
" Primero, predice el año que probablemente no se ... "
" ¿Cómo se relaciona esta tendencia con el cambio ... "
" ¿Qué pasa con las personas que viven cerca? "
" Limita tus respuestas a 120 palabras "

when ChatBot1 GotResponse

responseText

do set AiResponseTextBox .Text to get responseText