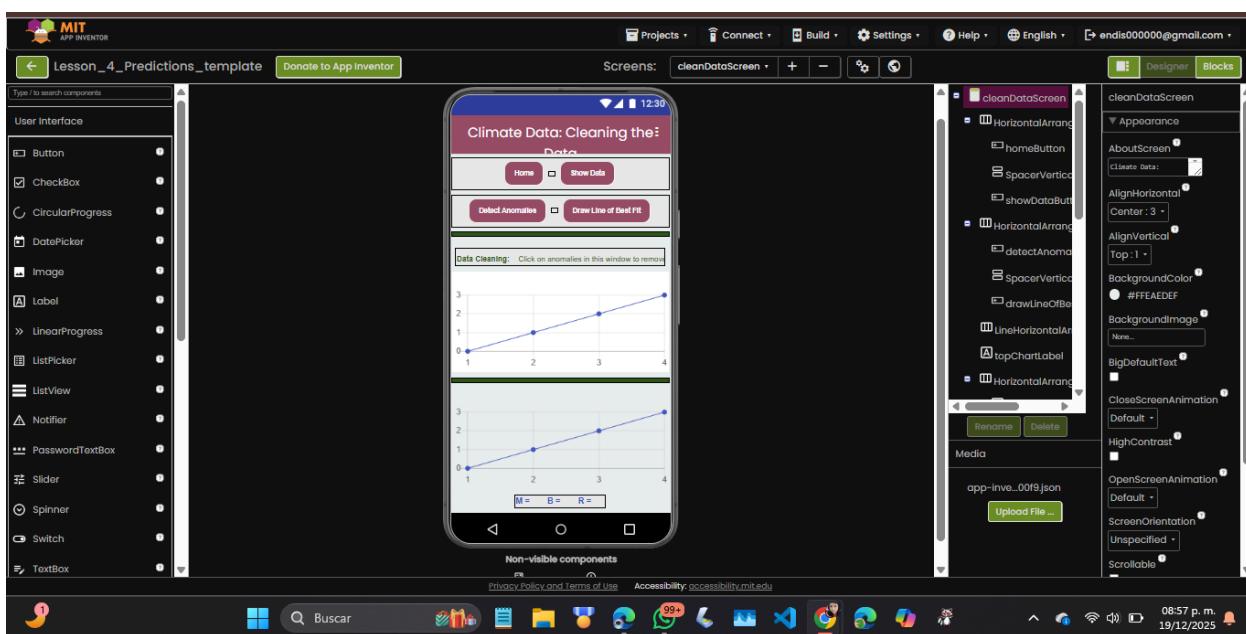
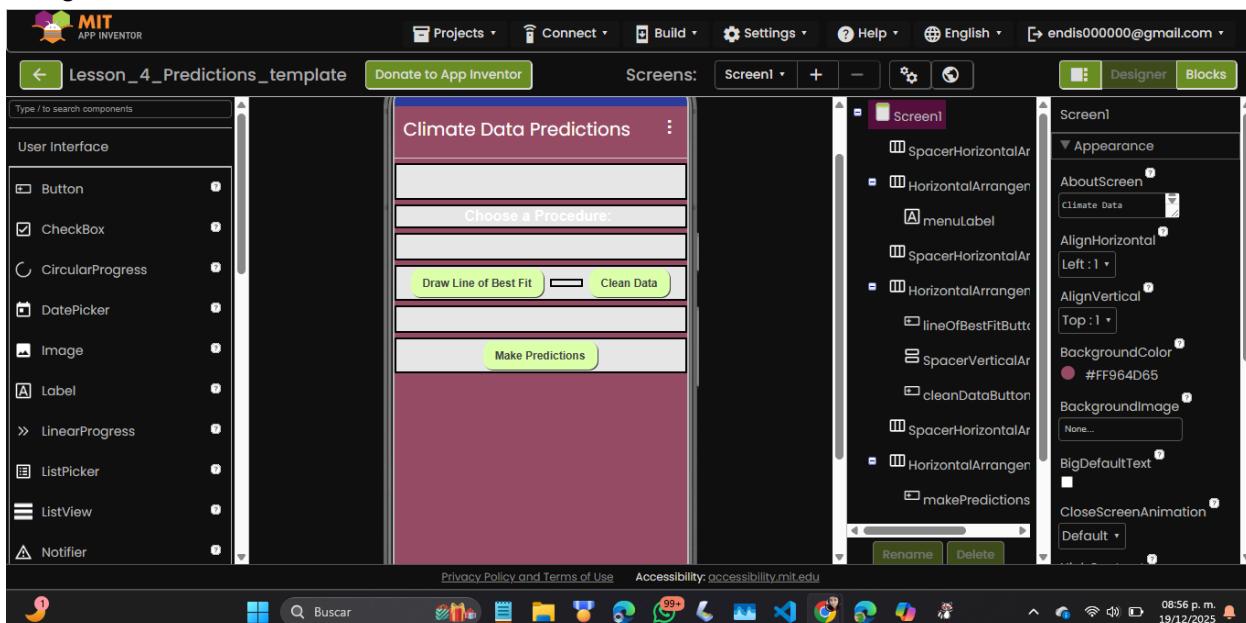


Designer



TC PRO B1 G4 2025

Brenda Esquivel Quiroz

endis00000@gmail.com

The screenshot shows the MIT App Inventor Designer interface with the project titled "Lesson_4_Predictions_template". The current screen is "drawLOBScreen". The left sidebar lists components under "User Interface" such as Button, CheckBox, CircularProgress, DatePicker, Image, Label, LinearProgress, ListPicker, ListView, Notifier, PasswordTextBox, Slider, Spinner, Switch, and TextBox. The right sidebar shows the component tree for "drawLOBScreen" which includes "HorizontalArrangement", "homeButton", "SpacerVertical", "showDataButton", "SpacerVertical", "drawLineOfBestFit", "LineHorizontalArrangement", "topChartLabel", "topChart", "topChartData", and "topTrendline". The main area displays two charts: one for "Days of Ice Cover" (blue line) and one for "Temperature (c)" (red line). Both charts have a linear trendline equation $y = mx + b$ displayed below them.

The screenshot shows the MIT App Inventor Designer interface with the project titled "Lesson_4_Predictions_template". The current screen is "makePredictionsScreen". The left sidebar lists components under "User Interface" including ChatBot, which is highlighted. The right sidebar shows the component tree for "makePredictionsScreen" which includes "buttonHorizontal", "homeButton", "SpacerVertical", "showDataButton", "buttonHorizontal", "detectAnomaly", "SpacerVertical", "drawLineOfBestFit", "SpacerVertical", "AIAnalysisButton", and "blacklineHorizontal". The main area displays two charts: one for "Days of Ice Cover" (blue line) and one for "Temperature (c)" (red line). A "Data Cleaning" section at the bottom allows users to click on anomalies in the chart to remove them.

Bloques

The image displays two screenshots of the App Inventor Designer interface, showing the code for 'Lesson_4_Predictions_template'.

Top Screenshot: Shows the code for the first screen ('Screen1'). It contains three event blocks:

- 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

Bottom Screenshot: Shows the code for the second screen ('cleanDataScreen'). It contains several event blocks, including:

- when homeButton - Click do open another screen screenName Screen1
- when showDataButton - Click call cleanedChartData2D - Clear call dataCleaningChartData2D - Clear call spreadsheet1 - ReadSheet sheetName Spirit Lake
- when spreadsheet1 - GotSheetData sheetData set topcharLabel - Text - to Spirit Lake, Orleans, Iowa call cleanedChartData2D - ImportFromSpreadsheet spreadsheet1 - xColumn Year yColumn Ice useHeaders true
- call dataCleaningChartData2D - ImportFromSpreadsheet spreadsheet1 - xColumn Year yColumn Ice useHeaders true
- when detectAnomaliesButton - Click do call dataCleaningChartData2D - HighlightDataPoints dataPoints call AnomalyDetection1 - DetectAnomaliesInChartData chartData threshold 2
- when dataCleaningChartData2D - EntryClick do if x is in list? thing make a list get x get y list call AnomalyDetection1 - DetectAnomaliesInChartData chartData 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
- when drawLineOfBestFitButton - Click ChartData - to cleanedChartData2D

TC PRO B1 G4 2025

Brenda Esquivel Quiroz

endis00000@gmail.com

The screenshot shows the MIT App Inventor Designer view for a project titled "Lesson_4_Predictions_template". The workspace contains several blocks of code:

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

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

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

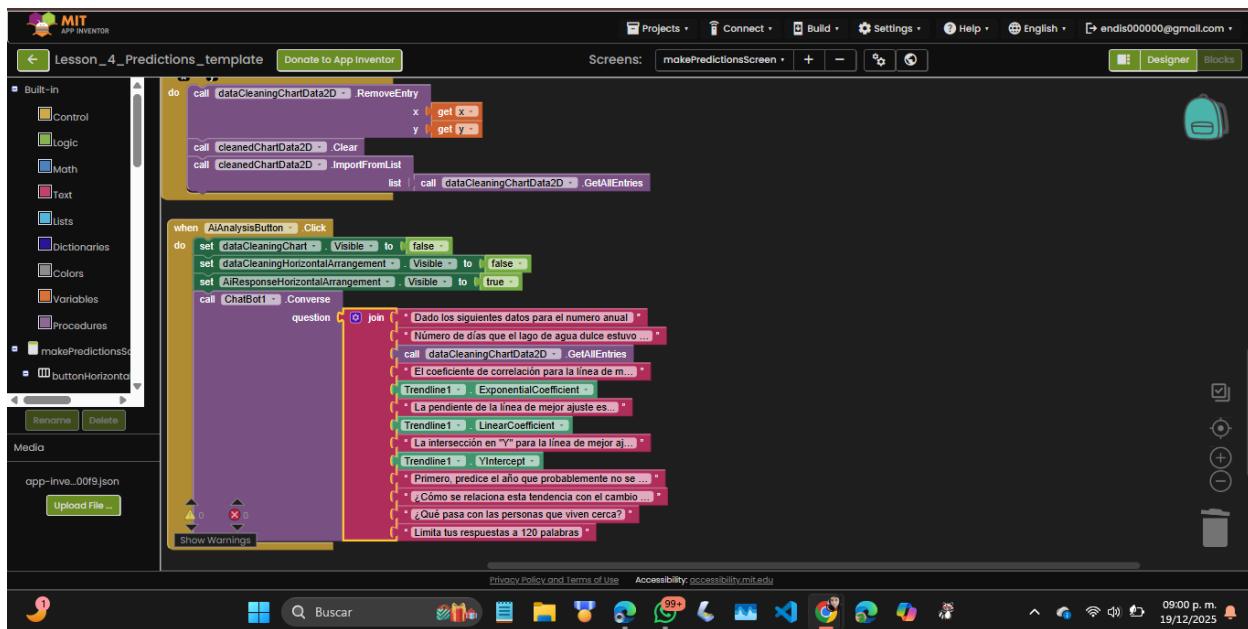
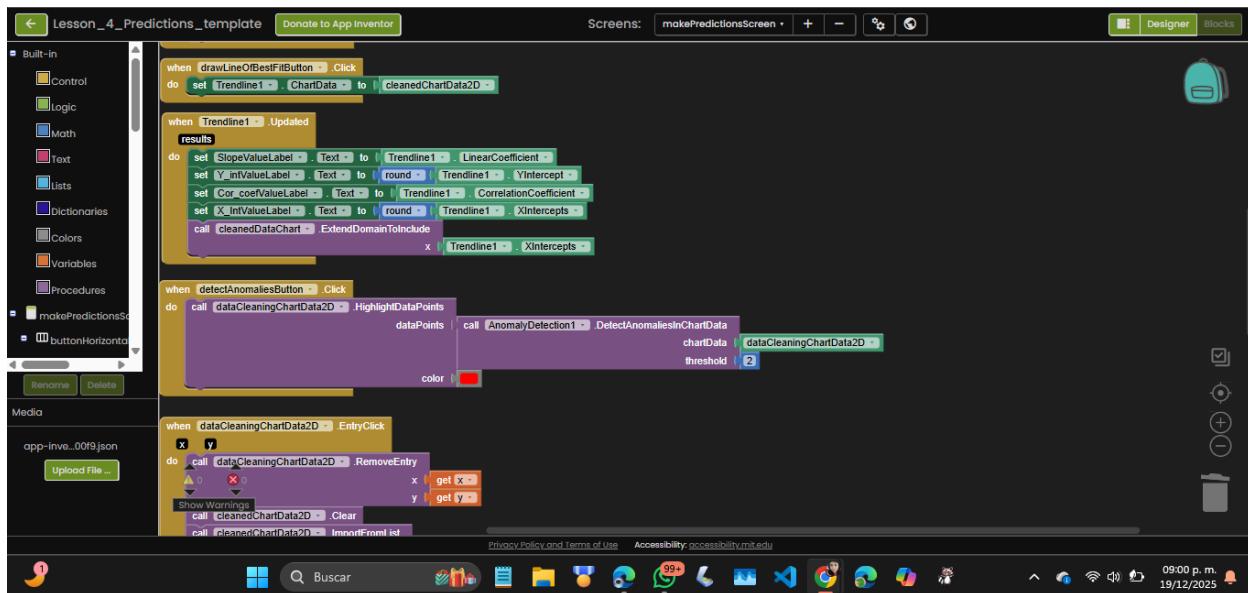
when drawLineOfBestFitButton.Click do
  set topTrendline.ChartData to topChartData2D
  set bottomTrendline.ChartData to bottomChartData2D
  set topSlopeValueLabel.Text to topTrendline.LinearCoefficient
  set topY_intValueLabel.Text to topTrendline.YIntercept
  set topCor_coefValueLabel.Text to topTrendline.CorrelationCoefficient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

The screenshot shows the MIT App Inventor Designer view for the same project. The workspace now includes additional blocks for data cleaning:

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

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

when spreadsheet1.GotSheetData do
  sheetData
  set topChartLabel.Text to ["Spirit Lake, Orleans, Iowa"]
  call cleanedChartData2D.ImportFromSpreadsheet
  spreadsheet1
  xColumn ["Year"]
  yColumn ["Ice"]
  useHeaders [true]
  call dataCleaningChartData2D.ImportFromSpreadsheet
  spreadsheet1
  xColumn ["Year"]
  yColumn ["Ice"]
  useHeaders [true]
```



TC PRO B1 G4 2025

Brenda Esquivel Quiroz

endis00000@gmail.com

