

ACTIVIDAD 9 y 10_ SESION 9 y 10

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ASIGNACIÓN: Proyecto IceMelt: Modeling and Predicting Climate Change

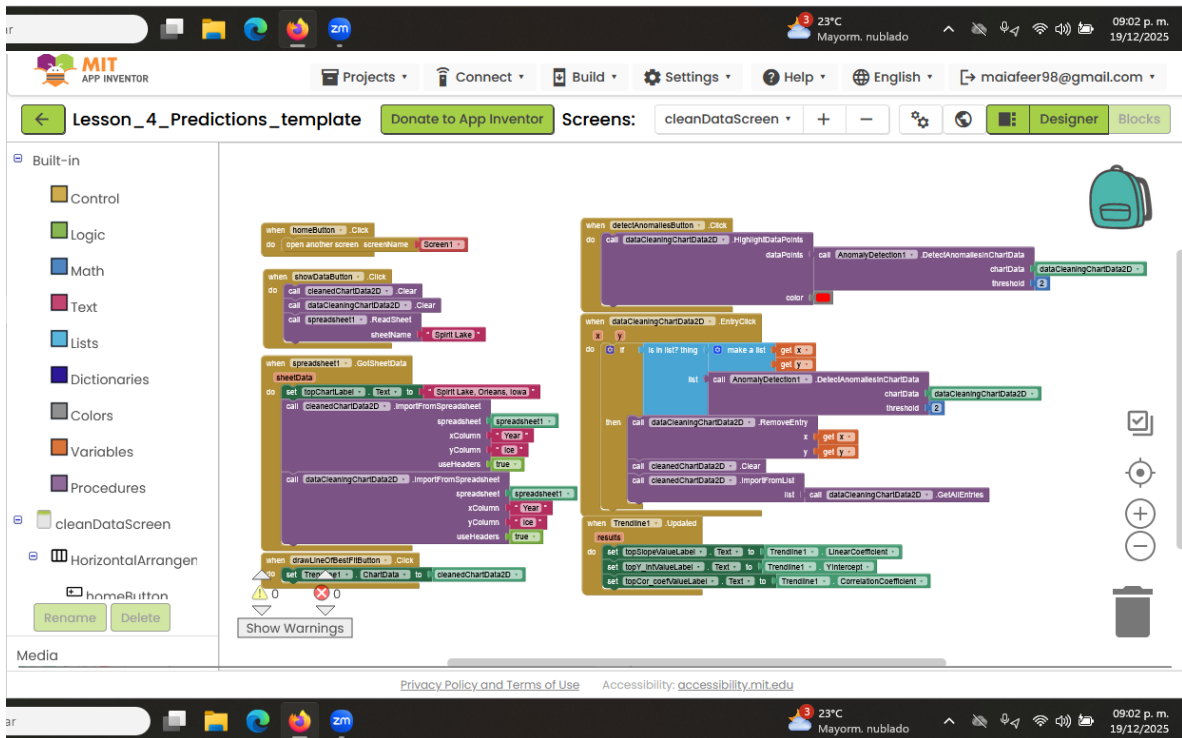
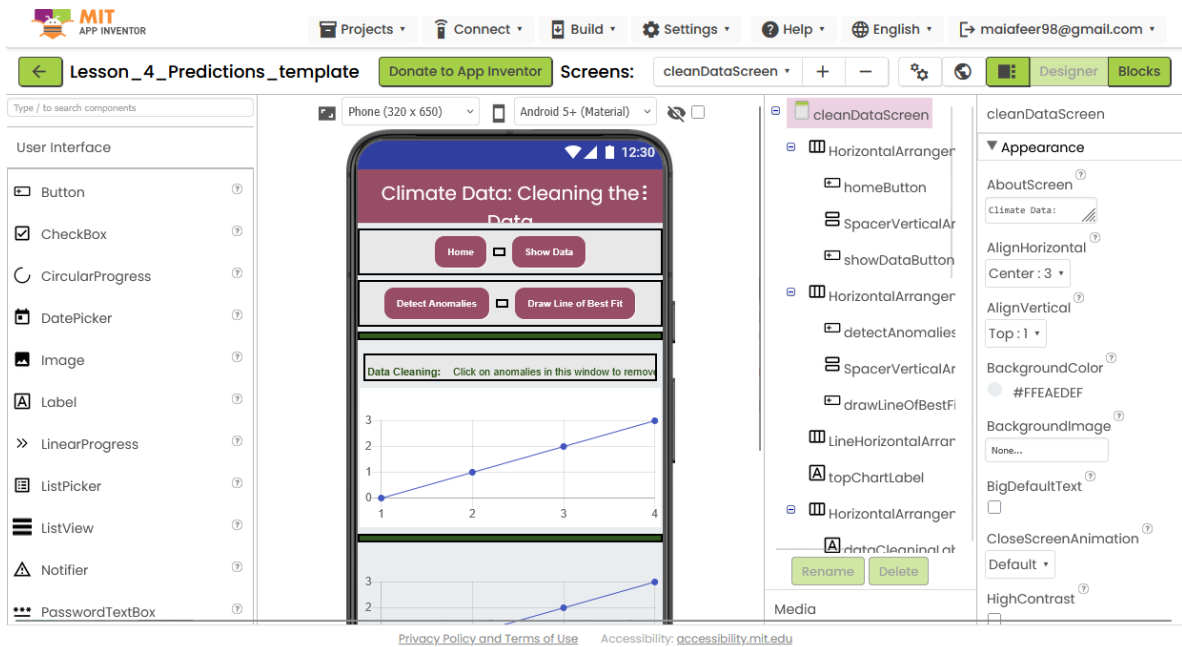
The image displays two screenshots of the MIT App Inventor web interface, showing the development of a climate prediction app.

Top Screenshot (Designer View):

- Header:** MIT APP INVENTOR, Projects, Connect, Build, Settings, Help, English, and user email: maiafeer98@gmail.com.
- Project Name:** Lesson_4_Predictions_template.
- Left Panel (User Interface):** Lists components like Button, CheckBox, CircularProgress, DatePicker, Image, Label, LinearProgress, ListPicker, ListView, Notifier, and PasswordTextBox.
- Center Canvas:** A mobile app preview for a phone (320 x 650) and Android 5+ (Material). The app has a purple header "Climate Data Predictions" with a menu icon. Below is a "Choose a Procedure:" label, a "Draw Line of Best Fit" button, a "Clean Data" button, and a "Make Predictions" button.
- Right Panel (Screen1):** Shows the visual structure of the screen. It includes a "SpacerHorizontalAr", "HorizontalArranger", "menuLabel", "SpacerHorizontalAr", "HorizontalArranger", "lineOfBestFitButtc", "SpacerVerticalAr", "cleanDataButton", "SpacerHorizontalAr", "HorizontalArranger", and "makePredictions". The "Appearance" tab is active, showing properties like "AboutScreen" (Climate Data), "AlignHorizontal" (Left), "AlignVertical" (Top), "BackgroundColor" (#FF964D65), "BackgroundImage" (None), "BigDefaultText" (Default), "CloseScreenAnimation" (Default), and "HighContrast" (Default).

Bottom Screenshot (Blocks View):

- Header:** Same as the top screenshot.
- Left Panel (Built-in):** Lists categories like Control, Logic, Math, Text, Lists, Dictionaries, Colors, Variables, Procedures, and Screen1. Screen1 components are expanded.
- Center Canvas:** Shows the logic blocks for the app's functionality:
 - Block 1:** when lineOfBestFitButton.Click, do open another screen screenName drawLOBFScreen.
 - Block 2:** when cleanDataButton.Click, do open another screen screenName cleanDataScreen.
 - Block 3:** when makePredictionsButton.Click, do open another screen screenName makePredictionsScreen.
- Right Panel:** Includes a "Show Warnings" button and a "Media" section.



MIT APP INVENTOR

Projects Connect Build Settings Help English maiafeer98@gmail.com

Lesson_4_Predictions_template Donate to App Inventor Screens: drawLOBFScreen + - Designer Blocks

Type / to search components

User Interface

- Button
- CheckBox
- CircularProgress
- DatePicker
- Image
- Label
- LinearProgress
- ListPicker
- ListView
- Notifier
- PasswordTextBox

Phone (320 x 650) Android 5+ (Material)

drawLOBFScreen

- HorizontalArranger
- homeButton
- SpacerVerticalAr
- showDataButton
- SpacerVerticalAr
- drawLineOfBestFi
- LineHorizontalArran
- topChartLabel
- topChart
- topChartData2D
- topTrendline
- HorizontalArranger
- Media

drawLOBFScreen

Appearance

AboutScreen

Climate Data: Create a Model

Home Show Data Draw Line of Best Fit

Days of Ice Cover

M = B = R =

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Lesson_4_Predictions_template Donate to App Inventor Screens: drawLOBFScreen + - Designer Blocks

Built-in

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

drawLOBFScreen

- HorizontalArranger
- homeButton

Media

when homeButton Click

do open another screen ScreenName Screen1

when showDataButton Click

do call topChartData2D Clear

call bottomChartData2D Clear

call spreadsheet1 ReadSheet

sheetName Spint Lake

when spreadsheet1 GotSheetData

do set topChartLabel Text to Spint 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_interceptLabel Text to topTrendline YIntercept

set bottomSlopeValueLabel Text to bottomTrendline LinearCoefficient

set bottomY_interceptLabel Text to bottomTrendline YIntercept

set bottomCor_coefValueLabel Text to bottomTrendline CorrelationCoefficient

Show Warnings

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Climate Data Predictions



Choose a Procedure:

Draw Line of Best Fit

Clean Data

Make Predictions



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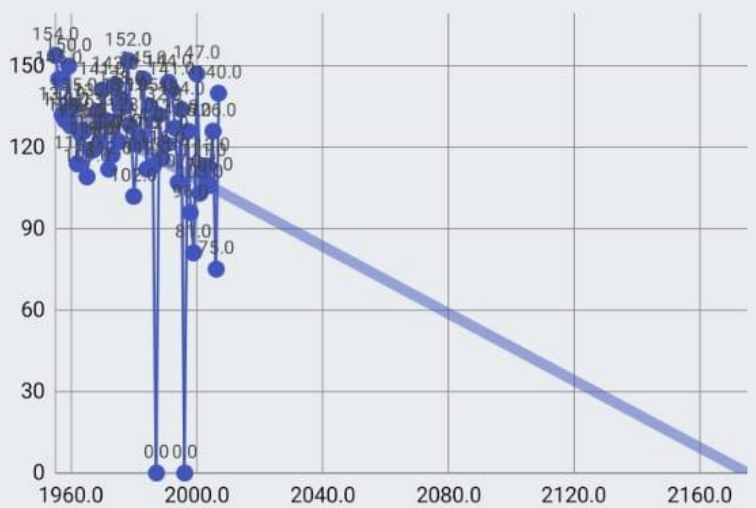
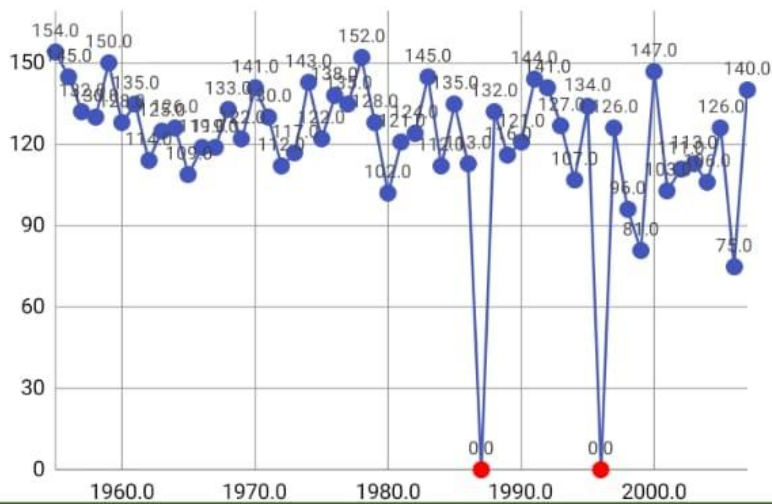


Climate Data: Making Predictio...

[Home](#)[Show Data](#)[Detect Anomalies](#)[Draw LOBF](#)[AI Analysis](#)

Spirit Lake, Orleans, Iowa

Data Cleaning: Click on anomalies in this window to remove.



M = -0.6178 B = 1344 R = -0.3279 X-Int = 2175

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Vo
LTE

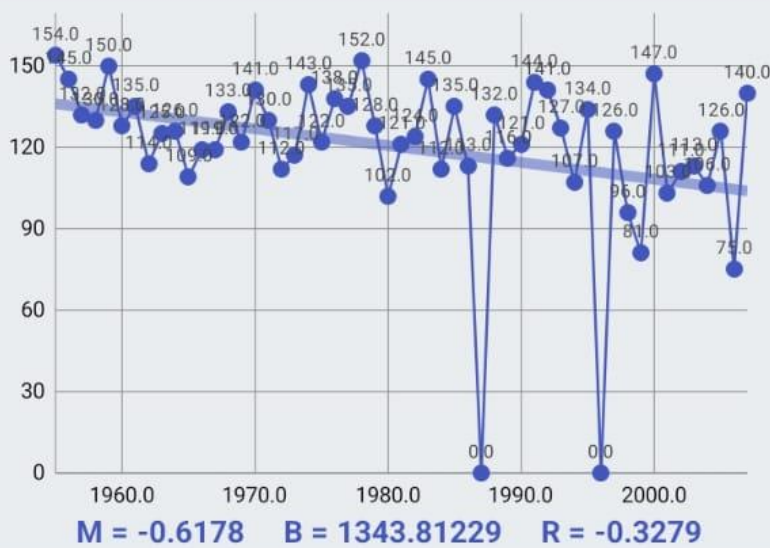
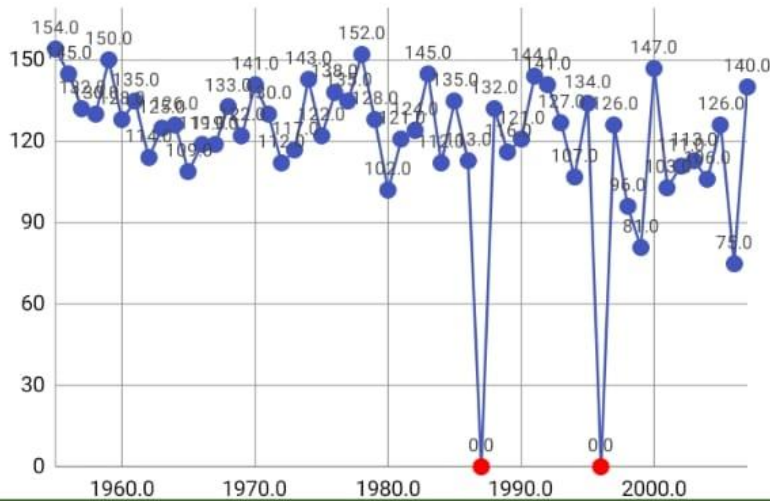
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Climate Data: Cleaning the Data

[Home](#)[Show Data](#)[Detect Anomalies](#)[Draw Line of Best Fit](#)

Spirit Lake, Orleans, Iowa

Data Cleaning: Click on anomalies in this window to



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Climate Data: Create a Model

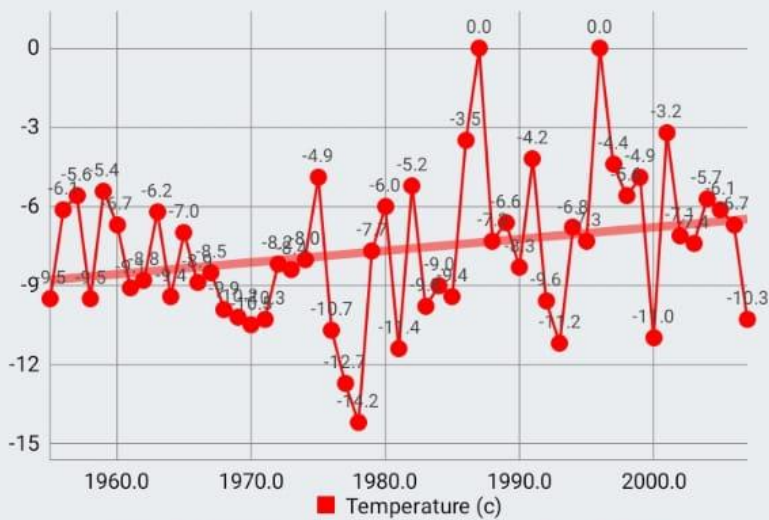


Home

Show Data

Draw Line of Best Fit

Spirit Lake, Orleans, Iowa

 $M = -0.6178$ $B = 1343.81229$ $R = -0.3279$  $M = 0.04448$ $B = -95.7545$ $R = 0.245$

