Creating a GUI based Interest calculator

Spoken Tutorial Project
https://spoken-tutorial.org
National Mission on Education through ICT
http://sakshat.ac.in

Script: Rashmi P, Iswariya S

Video: Iswariya Sasikumar

FOSSEE Team

23 May 2021

In this tutorial, we will:

In this tutorial, we will:

- **Learn about Radiobuttons.**

In this tutorial, we will:

- ▶ **Learn about Radiobuttons.**
- ▶ **Calculate simple and compound interest using GUI.**

System Requirements

To record this tutorial, I am using

System Requirements

To record this tutorial, I am using

- **Windows 10 OS**

System Requirements

To record this tutorial, I am using

- ▶ **Windows 10 OS**
- ▶ **Scilab 6.1.0**

System Requirements

To record this tutorial, I am using

- **Windows 10 OS**
- **Scilab 6.1.0**
- **GUI Builder Toolbox 4.2.1**

System Requirements

To record this tutorial, I am using

- **Windows 10 OS**
- **Scilab 6.1.0**
- **GUI Builder Toolbox 4.2.1**

System Requirements

To record this tutorial, I am using

- **Windows 10 OS**
- **Scilab 6.1.0**
- **GUI Builder Toolbox 4.2.1**

The process demonstrated in this tutorial is identical in Linux OS also.

To follow this tutorial:

To follow this tutorial:

► **The learner must have basic knowledge of Scilab and GUI Builder toolbox.**

Pre-requisites

To follow this tutorial:

- **The learner must have basic knowledge of Scilab and GUI Builder toolbox.**

- **For pre-requisite Scilab tutorials please visit** **https://spoken-tutorial.org**

▶ **The files used in this tutorial are provided in the Code files link.**

Code Files

- **The files used in this tutorial are provided in the Code files link.**
- **Please download and extract the files.**

- The files used in this tutorial are provided in the Code files link.
- Please download and extract the files.
- **Make a copy and then use them while practising.**

▶ **A Radiobutton is a button with two states.**

What is a Radiobutton?

- **A Radiobutton is a button with two states.**
- **They are intended to be mutually exclusive.**

What is a Radiobutton?

- **A Radiobutton is a button with two states.**

- **They are intended to be mutually exclusive.**

- **As a result, at any given time only one button is in a selected state.**

Objects to calculate simple and compound interest

▶ **Three Edit boxes:**

Objects to calculate simple and compound interest

- **Three Edit boxes:**
  - **Principal Amount,**

Objects to calculate simple and compound interest

- **Three Edit boxes:**
  - **Principal Amount,**
  - **Rate of Interest,**

Objects to calculate simple and compound interest

- **Three Edit boxes:**
  - **Principal Amount,**
  - **Rate of Interest,**
  - **Time.**

Objects to calculate simple and compound interest

- **Three Edit boxes:**
  - Principal Amount,
  - Rate of Interest,
  - Time.
- **Two Radiobuttons:**

Objects to calculate simple and compound interest

- **Three Edit boxes:**
  - Principal Amount,
  - Rate of Interest,
  - Time.
- **Two Radiobuttons:**
  - Simple interest,

Objects to calculate simple and compound interest

- **Three Edit boxes:**
  - Principal Amount,
  - Rate of Interest,
  - Time.
- **Two Radiobuttons:**
  - Simple interest,
  - Compound interest.

Objects to calculate simple and compound interest

- **One Text box to display the answer.**

In this tutorial, we have:

- ▶ **Learnt about Radiobuttons.**
- ▶ **Calculated simple and compound interest using GUI.**

Assignment

Create a GUI which has

- ▶ **An Edit box to take user input in meters.**

- ▶ **Two Radiobuttons to convert it into inches and feet.**

- ▶ **One Text box to display the output.**

About Spoken Tutorial project

- Watch the video available at
  **https://spoken-tutorial.org
  /What_is_a_Spoken_Tutorial**

- It summarises the Spoken Tutorial
  project.

- If you do not have good
  bandwidth, you can download
  and watch it.

Spoken Tutorial Workshops

The Spoken Tutorial Project Team

▶ **Conducts workshops using spoken tutorials.**

▶ **Gives certificates to those who pass an online test.**

▶ **For more details, please write to contact@spoken-tutorial.org**

Answers for THIS Spoken Tutorial

- Questions in THIS Spoken Tutorial?
- Visit https://forums.spoken-tutorial.org/
- Choose the minute and second where you have the question.
- Explain your question briefly.
- The Spoken Tutorial project will ensure an answer.
- You will have to register to ask questions.

FOSSEE Forum

- **For any general or technical questions on Scilab, visit the FOSSEE forum and post your question.**
  https://forums.fossee.in/

Textbook Companion project

- ▶ **The FOSSEE team coordinates the Textbook Companion project.**

- ▶ **We give Certificates and Honorarium to the contributors.**

- ▶ **For more details, please visit: https://scilab.in/ Textbook_Companion_Project**

Lab Migration

- **The FOSSEE team coordinates the Lab Migration project.**
- **For more details, please visit: https://scilab.in/ Lab_Migration_Project**

Acknowledgements

- **The Spoken Tutorial project is funded by the Ministry of Education, Government of India.**

Thank you

- ▶ **This is Iswariya Sasikumar, a FOSSEE intern 2021, IIT Bombay signing off.**
- ▶ **Thanks for joining.**