

DSW03A1 - Development Software

13th February 2023
Course Lecturer: Sandile Thamie Mhlanga



Lab Exercise 1: Windows based Application

Instructions

The concepts included in the lab exercise include windows based application controls which were covered in class by the lecturer. The tutors will also create more applications consisting of GUI control to further enforce our comprehension. Windows based application and Windows Presentation Foundation will be applied throughout the module.

This Lab Ex is a Face-to-Face session. Submission is required. Attendance and Submission counts for marks. TUT submitted remotely without attendance will attract zero marks.

- **IMPORTANT:** Please name your Visual Studio Solution like so (failure to do so will attract a **1%** penalty):
 - [STUDENT_NO]_[SURNAME]_LabEx1
 - (e.g. 222833200_Mhlanga_LabEx1
- **PLAGIARISM:** Please refer to your Learning Guide as well as the latest University of Johannesburg's plagiarism policy document entitled: "POLICY: PLAGIARISM"

COPYING: This is an individual assignment; if any copying is detected, all parties involved will score a **0%** for the assignment and **WILL** face disciplinary consequences

Question 1

Create a calculator application in C# as shown in figure 1. The calculate must perform the basic mathematical computation such as adding, dividing, multiplying and determining the difference.

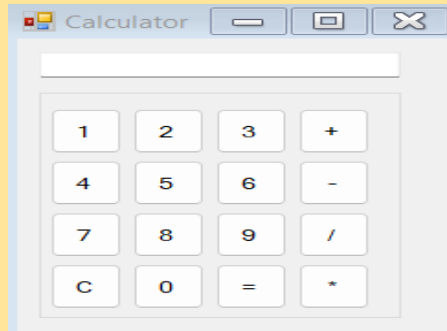


Figure 1

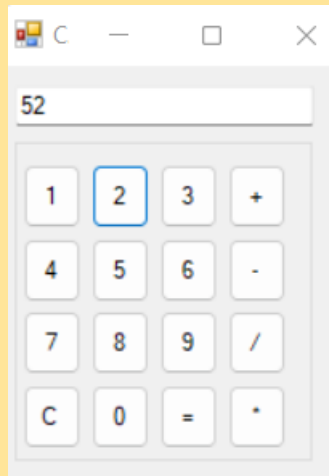


Figure 2

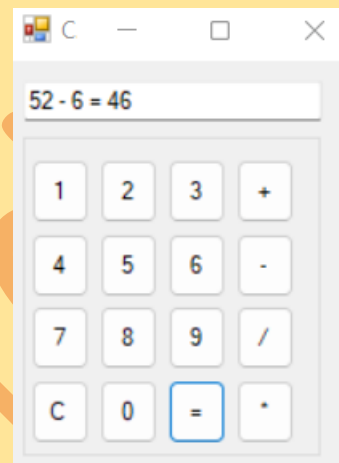


Figure 3

Question 2

Design a C# application for Domicile Designs that get sales transaction data, including customer name and purchase price. The store charges 25% interest on the purchase price. Output the customer payment and customer's projected balance each month up until the entire amount is paid off. Assume that when the balance reached R15 or less, the customer can pay off the account. The customer makes a payment of 12% of the price; inclusive of interest.

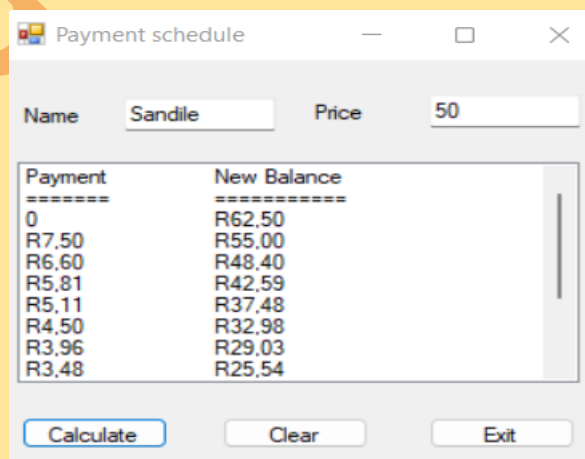


Figure 4

NB: This Lab Ex must be submitted by 23:59, Monday 27th of February 2023