

Mobile Interface Lab: Practice Problems

A. Mustafi

April 13, 2022

The exercises are not necessarily in any order of complexity.

1. Write a program to implement a simple calculator having the functionalities of Add, Subtract, Multiply and Division
2. Write a program to accept two co-ordinates and calculate the Euclidean Distance between them. Use a switch widget to confirm whether the answer is to be rounded.
3. Write a program to accept a message and encrypt it using Caesar's cipher. The result needs to be shown in a separate activity.
4. Write a program to accept a birthday and display the age of the person.
5. Write a program to show a choice of newspapers using checkboxes and display the choices chosen by a user.
6. Write a program to update a counter at an interval of every 5 seconds.
7. Write a program to show a choice of image filenames. Display the corresponding image when the user clicks on a particular filename.
8. Write a program to simulate a shopping cart. Your program should display the individual cost per item and the total cost when the user presses submit.
9. Write a program to display a form in a dialog box asking for the login details of a user. The user should be presented with a success message if he enters the right credentials.

10. Write a program to create a to-do list where the user can input a new job, update the status of a job and delete a particular job. The user interface should open with a list of jobs currently pending and the option to create a new job.