



Department of Computer Engineering

Academic Year: 2024-25

Name of Student: Krushnali Biradar

Semester: VI

Student ID:22102039

Class / Branch: T.E Comp

Date of Performance:4/4/25

Subject: MC

Date of Submission:4/4/25

Name of Instructor: Prof. Tanvi

Experiment No.10

AIM: Develop a tip calculator application.

Theory:

A customer may want to tip more or less based on the quality of the service provided and various other reasons. To accommodate this, the app should let the user calculate a custom tip. In this section, you add a text field for the user to enter a custom tip percentage. You already have a Bill Amount text field composable in your app, which is the stateless `EditNumberField()` composable function. In the previous codelab, you hoisted the `amountInput` state from the `EditNumberField()` composable to the `TipTimeScreen()` function, which made the `EditNumberField()` composable stateless.

To add a text field, you can reuse the same `EditNumberField()` composable, but with a different label. To make this change, you need to pass in the label as a parameter, rather than hardcode it inside the `EditNumberField()` composable function. Make the `EditNumberField()` composable function reusable: In the `MainActivity.kt` file in the `EditNumberField()` composable function's parameters, add a label string resource of `Int` type. Add a modifier argument of `Modifier` type to the `EditNumberField()` composable function.

In the function body, replace the hardcoded string resource ID with the label parameter. To denote that the label parameter is expected to be a string resource reference, annotate the function parameter with the `@StringRes` annotation. In the `EditNumberField()` function's `TextField` composable, pass the label parameter to the `stringResource()` function. In the `TipTimeScreen()` function's `EditNumberField()` function call, set the label parameter to the `R.string.bill_amount` string resource



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Output:

23:30

02:10

Calculate Tip

100

Bill Amount

5400.93

%

Tip Percentage

10

Round up tip?

☐

Tip Amount:

₹541.00

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