



University of Sri Jayewardenepura, Sri Lanka
Bachelor of Information and Communication Technology Semester 1
ITC 1063 – Fundamentals of Programming
Laboratory Exercise 2

Part 1: Simple Calculator

Step 1: Open Code::Blocks IDE and create a new project named "SimpleCalculator_Your Index Number".

Example: SimpleCalculator_ict22800

Step 2: Create a new C source file within the project named "calculator.c".

Step 3: Write the following code in the "calculator.c" file:

```
#include <stdio.h>

int main() {
    int num1, num2, sum, diff, product;

    printf("Enter the first number: ");
    scanf("%d", &num1);

    printf("Enter the second number: ");
    scanf("%d", &num2);

    sum = num1 + num2;
    diff = num1 - num2;
    product = num1 * num2;

    printf("Sum: %d\n", sum);
    printf("Difference: %d\n", diff);
    printf("Product: %d\n", product);

    return 0;
}
```

Step 4: Save the file and build and run the program using Code::Blocks.

Step 5: Follow the prompts to enter two numbers and observe the program's output.

Part 2: Temperature Convertor

Step 1: Create a new project named "TemperatureConverter Your Index Number " in Code::Blocks.

Example: TemperatureConverter_ict22800

Step 2: Create a new C source file within the project named "temperature_converter.c".

Step 3: Write the following code in the "temperature_converter.c" file:

```
#include <stdio.h>

int main() {
    float celsius, fahrenheit;

    printf("Enter temperature in Celsius: ");
    scanf("%f", &celsius);

    fahrenheit = (celsius * 9 / 5) + 32;

    printf("Temperature in Fahrenheit: %.2f\n", fahrenheit);

    return 0;
}
```

Step 4: Save the file and build and run the program using Code::Blocks.

Step 5: Follow the prompts to enter a temperature in Celsius and observe the program's output.