Lab Assignment 02

Task 01

Take two **single digit numbers** as input. Let's call them x and y. Now calculate $(x + y)^2$, print the message "The result is" and then display the **least significant digit** of the result (i.e., $(x + y)^2 \bmod 10$) in the **next line**.

Sample Execution:

2
3
The result is 5

Task 02

Take a 2-digit number as input from the user. Let the number be n. Now display the n^{th} character in English Alphabet at the **next position** on the **next line** in **lower case**. (**You don't need to do error checking**; the input number will be kept between 01 and 26).

Sample Execution 1:

01
a

Sample Execution 2:

23

Task 03

Write a program to:

(a) **prompt the user**,

(b) **read three characters**, and then

(c) **display them down the left margin in reverse order**.

Sample execution:

Enter First Character: A Enter
Second Character: # Enter Third
Character: 0

0
#
A

Task 04

Write a program to read a 3-bit binary number, and display it on the next line in decimal.

Sample execution 1:

ENTER A 3 BIT NUMBER: 001 IN
DECIMAL IT IS 1

Sample execution 2:

ENTER A 3 BIT NUMBER: 111 IN
DECIMAL IT IS 7