


National University of Computer and Emerging Sciences, Lahore Campus

	Course:	PF Lab	Course Code:	CL1002
	Duration:	45 Minutes	Total Marks:	10
	Paper Date:	3-Oct-2022	Weight	
	Section:	1H	Page(s):	2
	Exam:	Quiz 1	Reg. No.	
Instruction/Notes: Honesty always gives fruit and Dishonesty is always harmful.				

Question#1- [10 marks]

Write a program that calculates the balance of a savings account at the end of a period. It should ask the user for the annual interest rate, the starting balance, and the number of months that have passed since the account was established. A loop should then iterate once for every month, performing the following:

A. Ask the user for the amount deposited into the account during the month. (Do not accept negative numbers.) This amount should be added to the balance.

B. Ask the user for the amount withdrawn from the account during the month. (Do not accept negative numbers.) This amount should be subtracted from the balance.

C. Calculate the monthly interest. The monthly interest rate is the annual interest rate divided by twelve. Multiply the monthly interest rate by the balance and add the result to the balance.

After the last iteration, the program should display the ending balance, the total amount of deposits, the total amount of withdrawals, and the total interest earned.

Question#2- [10 marks]

Write an astrology program. The user types in a birthday, and the program responds with the sign and horoscope for that birthday. The month may be entered as a number from 1 to 12. Make up a horoscope for each sign.

The horoscope signs and dates are:

Aries March 21–April 19

Taurus April 20–May 20

Gemini May 21–June 21

Cancer June 22–July 22

Leo July 23–August 22

Virgo August 23–September 22

Libra September 23–October 22

Scorpio October 23–November 21

Sagittarius November 22–December 21

Capricorn December 22–January 19

Aquarius January 20–February 18

Pisces February 19–March 20