

1) Write a C program that simulates a stock trading scenario for a novice trader. The program should take the initial investment amount, stock purchase price, and current stock value as inputs. It should then calculate and display the profit or loss based on the fluctuations in the stock's value.

```
#include <stdio.h>

int main() {
    float investment, purchase_price, current_price;
    float shares, current_value, profit_loss;

    // Input values
    printf("Enter initial investment amount: ");
    scanf("%f", &investment);

    printf("Enter stock purchase price per share: ");
    scanf("%f", &purchase_price);

    printf("Enter current stock price per share: ");
    scanf("%f", &current_price);

    // Calculate number of shares bought
    shares = investment / purchase_price;

    // Calculate current total value
    current_value = shares * current_price;

    // Calculate profit or loss
    profit_loss = current_value - investment;

    printf("\nNumber of shares purchased: %.2f", shares);
    printf("\nCurrent total value of shares: %.2f", current_value);

    if (profit_loss > 0) {
        printf("\nProfit: %.2f", profit_loss);
    } else if (profit_loss < 0) {
        printf("\nLoss: %.2f", -profit_loss);
    } else {
        printf("\nNo Profit No Loss.");
    }

    return 0;
}
```