#include <stdio.h>

Int main() {

// Declare variables

Double principal;

Int time, rate, compoundInterest;

// Input principal amount, rate of interest, and time period

Printf(“Enter principal amount: “);

Scanf(“%lf”, &principal);

Printf(“Enter annual interest rate (in percentage): “);

Scanf(“%d”, &rate);

Printf(“Enter time period (in years): “);

Scanf(“%d”, &time);

// Convert percentage interest rate to a decimal

Double rateDecimal = rate / 100.0;

// Calculate compound interest without using pow function

Double factor = 1.0;

For (int I = 0; I < time; i++) {

Factor \*= (1 + rateDecimal);

}

compoundInterest = (int)(principal \* (factor – 1));

// Output the calculated compound interest

Printf(“Compound interest is: %d\n”, compoundInterest);

Return 0;

}