// program to calculate compound interest

#include <stdio.h>

int main() {

double principal\_amount, rate, time\_duration, amount, compound\_interest;

printf("Enter the principal amount: ");

scanf("%lf",&principal\_amount);

printf("Enter the rate of interest: ");

scanf("%lf",&rate);

printf("Enter the time duration: ");

scanf("%lf",&time\_duration);

amount = principal\_amount\*((pow((1+rate/100),time\_duration)));

compound\_interest = amount - principal\_amount;

printf(" The compound interest is: %lf",compound\_interest);

return 0;

}