c//program to calculate compound interest

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//program to calculate compound interest printf(),scanf()

#include<stdio.h>

#include<math.h>

int main(){

//a=amount,r=rate,t=total number of years,n=number of compounding years

//ci=compound interest

float a,p,r,t,n,ci;

printf("Input principle:");

scanf("%f",&p);

printf("Input rate:");

scanf("%f",&r);

printf("Input total number of years:");

scanf("%f",&t);

printf("Input number of compounding a year:");

scanf("%f",&n);

a=p\*pow((1+r/(n\*100)),(n\*t));

printf("total amount=%f\n",a);

ci=(a-p);

printf("compound interest=%.2f\n",ci);

return 0;

}