Program to Calculate Simple Interest and Compound Interest

# Algorithm

1. Step 1: Start
2. Step 2: Input Principal (P), Rate (R), Time (T)
3. Step 3: Compute Simple Interest: SI = (P \* R \* T) / 100
4. Step 4: Compute Amount: A = P \* (1 + R/100) ^ T
5. Step 5: Compute Compound Interest: CI = A - P
6. Step 6: Display SI and CI
7. Step 7: Stop

# C Program

#include <stdio.h>  
#include <math.h>  
  
int main() {  
 float P, R, T, SI, CI, A;  
  
 // Taking inputs  
 printf("Enter Principal Amount: ");  
 scanf("%f", &P);  
 printf("Enter Rate of Interest (%%): ");  
 scanf("%f", &R);  
 printf("Enter Time (in years): ");  
 scanf("%f", &T);  
  
 // Simple Interest  
 SI = (P \* R \* T) / 100;  
  
 // Compound Interest  
 A = P \* pow((1 + R / 100), T);  
 CI = A - P;  
  
 // Display Results  
 printf("\n--- Results ---\n");  
 printf("Simple Interest = %.2f\n", SI);  
 printf("Compound Interest = %.2f\n", CI);  
  
 return 0;  
}

SI=P\*R\*T/100

Read SI

Read CI

Write P

Write R

Write T

P=Principle

R=Rate

T=Time

SI= SIMPLE INTERERST

A= AMOUNT

CI = COMPOUND INTERTREST

STOP

Start