

```
1 //9. Create a program to calculate Compound interest
  . //
2 import java.util.Scanner;
3
4 public class CompoundInterestCalculator {
5     public static void main(String[] args) {
6         Scanner scanner = new Scanner(System.in);
7
8         // Taking input for principal, rate, and time
9         System.out.print("Enter principal amount: ");
10        double principal = scanner.nextDouble();
11
12        System.out.print("Enter annual interest rate
(in percentage): ");
13        double rate = scanner.nextDouble();
14
15        System.out.print("Enter time (in years): ");
16        double time = scanner.nextDouble();
17
18        // Calculating compound interest
19        double amount = principal * Math.pow((1 +
rate / 100), time);
20        double compoundInterest = amount - principal;
21
22        // Displaying the result
23        System.out.println("Compound Interest: " +
compoundInterest);
24        System.out.println("Total Amount: " + amount
);
25
26        scanner.close();
27    }
28 }
29
```