// import the scanner from java.util package

Import java.util.Scanner;

public class ComputeCdValue {

public static void main(String[] args) {

// create a scanner object

Scanner userInput = new Scanner(System.in);

// Prompt user to enter initial deposit

System.out.print("\nPlease Enter your initial deposit Amount: ");

// declare initialDeposit variable and assign to it the user inputted value

double initialDeposit$ = userInput.nextDouble();

// Prompt the user to enter the annual % yield

System.out.print("Please Enter the annual percentage yield: ");

// declare the variable annualPercent to hold the annual % yield

double annualPercent = userInput.nextDouble();

// Prompt user to enter the maturity period in months

System.out.print("Please Enter the maturity period (# of months): ");

// declare the variable numberOfMonth to hold the months inputted by the user

int numberOfMonth = userInput.nextInt();

//display headings

System.out.println("\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*RESULT\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");

System.out.printf("%-9s%-1s","MONTH","CD VALUES");

// use a for loop to display the month and CD value worth at the term of its corresponding months

for (int i = 1 ; i <= numberOfMonth ; ++i ) {

initialDeposit$ = (initialDeposit$ + ((initialDeposit$ \* annualPercent) / 1200)) ;

System.out.printf("\n%-7d $%,-9.3f",i, initialDeposit$);

}// end of the for loop

}

}