```java
import java.util.Arrays;
import java.util.Scanner;
/*BankFinder class finds loan provider by collecting three pieces of information ⟶
 loan amount, annual interest, and number of years to pay back in installments,
 * prints the loan providers by sorting providers in alphabetical order or ascending
 order of annualInterestRate
 * prints the loan providers whose anuualInterestRate is less than or equal to the
 requested rate*/
public class BankFinder
{
    /*counts the number of loan providers based on the criteria*/
    int count;

    /*Finds loan providers based on supplied information*/
    public static void findLoanProvider()
    {
        BankFinder c = new BankFinder();
        Scanner input = new Scanner(System.in);

        Bank banks[] = new Bank[Bank.howMany()];
        for(int i=0;i<banks.length;i++)
        {
            banks[i] = new Bank();
        }

        /*sort banks in alphabetical order based on bank names */
        sortBank(banks,"names");
        Bank.printBanksCodes(banks);

        System.out.print("Enter annual interest rate within (1.00-10.00): ");
        double annualInterestRate = input.nextDouble();


        System.out.print("Enter number of years as an integer: ");
        int numberOfYears = input.nextInt();

        System.out.print("Enter loan amount, for example, 120000.95: ");
        double loanAmount = input.nextDouble();

        Bank matchedBanks[ ] = new Bank[banks.length];

        /*sort banks in ascending order based on AnnualInterestRate */
        sortBank(banks,0.0);

        /*Display bank name, bank code, AnnualInterestRate, loan amount, monthly
 payment, numberOfMonths, total payment, quote created date*/
        for(int i=1;i<173;i++)
            System.out.print("_");
        System.out.printf("\n|%-30s%10s%20s%20s%20s%20s%30s|
 \n","Banks","Codes","AnnualInterestRate","LoanAmount","monthlyPayment","numberOfMonth
 s","totalPayment","Date");
        for(int i=1;i<175-2;i++)
            System.out.print("_");
        System.out.println();
```

```
49
50
51          /*find loan providers         */
52          for(int i=0;i<banks.length;i++)
53          {
54              matchedBanks[i] = findMatch(banks[i],annualInterestRate, numberOfYears,
  loanAmount, c);
55          }
56          for(int i=1;i<175-2;i++)
57              System.out.print("_");
58          /*print total match found⟶count of loan providers*/
59          System.out.println("\n"+c.count+" Match found");
60
61
62
63      }
64
65
66      /* get each loan provider matches the criteria ⟶ AnnualInterestRate less than
  or equal to user requested AnnualInterestRate */
67      public static Bank findMatch(Bank bank,double annualInterestRate, int
  numberOfYears, double loanAmount, BankFinder c)
68      {
69          return new Bank(bank, annualInterestRate,  numberOfYears, loanAmount, c);
70      }
71
72      /*sort banks based on annualInterestRate*/
73      public static void sortBank(Bank b[],double typeValue)
74      {
75          Arrays.sort(b, (b1, b2) → Double.compare(b1.getLoanInfo
  ().getAnnualInterestRate(), b2.getLoanInfo().getAnnualInterestRate()));
76      }
77
78
79      /*sort banks based on bank names alphabetically*/
80      public static void sortBank(Bank b[],String typeValue)
81      {
82          Arrays.sort(b, (b1, b2) → b1.getBankName().compareTo(b2.getBankName()));
83      }
84  }
```