LAB9_ANP_C6339_ARRAY_OBJECTS

Due date: Saturday, 11 November 2023, 5:30 AM
Maximum number of files: 1
Type of work: Individual work
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Assignment-1.

Define a class Invoice with the following datamembers and methods

invoiceId : inv1

invoicePrice : 2300.50

vendorName : vendor1

invoiceName : abc ltd.

location : Pune

add a default constructor

define following methods

addInvoice() - read from user

displayInvoice() - display all datamembers

create array objects to store 'n' no. of invoices

Solution:-

```
import java.util.*;

import java.util.Scanner;

public class Invoice {

    private String invoiceId;
    private double invoicePrice;
    private String vendorName;
    private String invoiceName;
```

```
private String location;

//Default constructor
public Invoice() {
   invoiceId = "inv1";
   invoicePrice = 2300.50;
   vendorName = "vendor1";
   invoiceName = "abc ltd.";
   location = "Pune";

}



//read data from user
public void addInvoice() {
   Scanner scanner = new Scanner(System.in);

   System.out.println("Enter invoice ID: ");
   invoiceId = scanner.nextLine();

   System.out.println("Enter invoice price: ");
   invoicePrice = scanner.nextDouble();
        scanner.nextLine();

        System.out.println("Enter vendor name: ");
   vendorName = scanner.nextLine();

        System.out.println("Enter invoice name: ");
   invoiceName = scanner.nextLine();

   System.out.println("Enter location: ");
   location = scanner.nextLine();
```

```
 }
 //Display all data members
 public void displayInvoice() {
    System.out.println("Invoice ID: " + invoiceId);
    System.out.println("Invoice price: " + invoicePrice);
    System.out.println("Vendor name: " + vendorName);
    System.out.println("Invoice name: " + invoiceName);
    System.out.println("Location: " + location);

 }

 public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

        System.out.println("Enter the number of invoices: ");
        int n = scanner.nextInt();
        scanner.nextLine();

        Invoice[] invoices = new Invoice[n];

         for (int i = 0; i < n; i++) {
                System.out.println("Enter details for Invoice " + (i + 1) + ":");
        invoices[i] = new Invoice();
        invoices[i].addInvoice();
        }
         scanner.nextLine();
         System.out.println("Displaying invoices: ");
         for (int i = 0; i < n; i++) {
                System.out.println("\nInvoice " + (i + 1) + " details:");
        invoices[i].displayInvoice();
        }
}
```

}

Output:

```
C:\Users\thila\OneDrive\Desktop\Anudip_Labs>javac Invoice.java

C:\Users\thila\OneDrive\Desktop\Anudip_Labs>java Invoice
Enter the number of invoices:
2
Enter details for Invoice 1:
Enter invoice ID:
inv1
Enter invoice price:
2300.50
Enter vendor name:
vendor1
Enter invoice name:
abc ltd.
Enter location:
pune
Enter details for Invoice 2:
Enter invoice ID:
inv2
Enter invoice price:
3456.786
Enter vendor name:
vendor2
Enter invoice name:
def ltd.
Enter location:
hyderabad

Displaying invoices:

Invoice 1 details:
Invoice ID: inv1
Invoice price: 2300.5
Vendor name: vendor1
Invoice name: abc ltd.
Location: pune
Invoice 2 details:
Invoice ID: inv2
Invoice price: 3456.786
Vendor name: vendor2
Invoice name: def ltd.
Location: hyderabad
```