Ques:Wap to get bank account details of the customer.

import java.util.Random;

import java.util.Scanner;

class Account {

    long account\_number;

    double amount;

    int age;

    int withdraw, deposit;

    String name;

    Scanner scn = new Scanner(System.in);

    public Account() {

        Random rand = new Random();// random method for taking random int

        this.amount = 0.00;

        // taking 10-digit account number

        this.account\_number = 1000000000 + rand.nextInt(999999999);

        this.withdraw = 0;

        this.deposit = 0;

    }

    // Method to create the customer's account

    void createAccount() {

        System.out.println("Enter the name of the customer");

        this.name = scn.nextLine();

        System.out.println("Enter the age of the customer");

        this.age = scn.nextInt();

        System.out.println("Account created SUCCESSFULLY");

        return;

    }

    // Method to display customer's details

    void displayDetails() {

        System.out.println("Customer name :" + this.name);

        System.out.println("Customer age:" + this.age);

        System.out.println("Account number:" + this.account\_number);

        System.out.println("Last deposit:" + this.deposit);

        System.out.println("Last withdrawal:" + this.withdraw);

        return;

    }

    // Method to withdraw money

    void withdrawMoney() {

        System.out.printf("Enter amount to withdraw:");

        this.withdraw = scn.nextInt();

        this.amount = this.amount - this.withdraw;

        System.out.println("Amount withdrawal SUCCESSFUL");

        System.out.println("Amount:" + this.amount);

        return;

    }

    // Method to deposit money

    void depositMoney() {

        System.out.println("Enter amount to deposit:");

        this.deposit = scn.nextInt();

        this.amount = this.amount + this.deposit;

        System.out.println("Amount deposit SUCCESSFUL");

        System.out.println("Amount:" + this.amount);

        return;

    }

}

class Clerk {

    // main class

    public static void main(String[] args) {

        Account[] customer;// customer array

        customer = new Account[10];

        int n = 0, m = -1;

        char ch = 'n';

        Scanner scn = new Scanner(System.in);

        do {

            long account;

            System.out.println("Enter your choice \n1) Withdraw Money\n2)Create account");

            System.out.println("3)Deposit money\n4)Know account details\n0) Exit");

            m = scn.nextInt();

            switch (m) {

                case 1:

                    // to withdraw money

                    System.out.println("Enter account number to withdraw money");

                    account = scn.nextLong();

                    for (int j = 0; j < n; j++) {

                        if (customer[j].account\_number == account) {

                            customer[j].withdrawMoney();

                            customer[j].displayDetails();// method calling

                            break;

                        } else if (j == 0) {

                            System.out.println("Invalid account number");

                        }

                    }

                    break;

                case 2:

                    // to create account

                    customer[n] = new Account();// default constructor

                    customer[n].createAccount();// method calling

                    customer[n].displayDetails();// method calling

                    n++;

                    break;

                case 3:

                    // to deposit money

                    System.out.println("Enter account number to withdraw money");

                    account = scn.nextLong();

                    for (int j = 0; j < n; j++) {

                        if (customer[j].account\_number == account) {

                            customer[j].depositMoney();

                            customer[j].displayDetails();// method calling

                            break;

                        } else if (j == n) {

                            System.out.println("Invalid account number");

                        }

                    }

                    break;

                case 4:

                    // to know account details

                    System.out.println("Enter account number to know account details");

                    account = scn.nextLong();

                    for (int j = 0; j < n; j++) {

                        if (customer[j].account\_number == account) {

                            customer[j].displayDetails();// method calling

                            break;

                        } else if (j == n) {

                            System.out.println("Invalid account number");

                        }

                    }

                    break;

                default:

                    break;

            }

            System.out.println("Do you want to continue (y or n)");

            ch = scn.next().charAt(0);

            n++;

        } while (n < 10 && (ch == 'Y' || ch == 'y'));

        scn.close();

    }

}

--------------------------------------------------------OUTPUT:--------------------------------------------------------------

Enter your choice

1) Withdraw Money

2)Create account

3)Deposit money

4)Know account details

0) Exit

2

Enter the name of the customer

Dev

Enter the age of the customer

21

Account created SUCCESSFULLY

Customer name :Dev

Customer age:21

Account number:1191732177

Last deposit:0

Last withdrawal:0

Do you want to continue (y or n)

y

Enter your choice

1) Withdraw Money

2)Create account

3)Deposit money

4)Know account details

0) Exit

2

Enter the name of the customer

Divya

Enter the age of the customer

21

Account created SUCCESSFULLY

Customer name :Divya

Customer age:21

Account number:1499317436

Last deposit:0

Last withdrawal:0

Do you want to continue (y or n)

y

Enter your choice

1) Withdraw Money

2)Create account

3)Deposit money

4)Know account details

0) Exit

3

Enter account number to withdraw money

1191732177

Enter amount to deposit:

78978675

Amount deposit SUCCESSFUL

Amount:7.8978675E7

Customer name :Dev

Customer age:21

Account number:1191732177

Last deposit:78978675

Last withdrawal:0

Do you want to continue (y or n)

y

Enter your choice

1) Withdraw Money

2)Create account

3)Deposit money

4)Know account details

0) Exit

1

Enter account number to withdraw money

1191732177

Enter amount to withdraw:

234

Amount withdrawal SUCCESSFUL

Amount:7.8978441E7

Customer name :Dev

Customer age:21

Account number:1191732177

Last deposit:78978675

Last withdrawal:234

Do you want to continue (y or n)

y

Enter your choice

1) Withdraw Money

2)Create account

3)Deposit money

4)Know account details

0) Exit

4

Enter account number to know account details

1191732177

Customer name :Dev

Customer age:21

Account number:1191732177

Last deposit:78978675

Last withdrawal:234

Do you want to continue (y or n)

y

Enter your choice

1) Withdraw Money

2)Create account

3)Deposit money

4)Know account details

0) Exit

0

Do you want to continue (y or n)

n