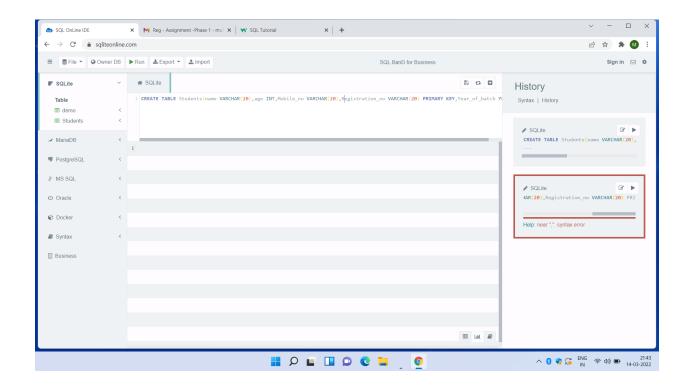
ASSIGNMENT-1

SQLite

CREATE

CREATE TABLE Students(name VARCHAR(20),age INT,Mobile_no VARCHAR(20),Registration_no VARCHAR(20) PRIMARY KEY,Year_of_batch year);

CREATE TABLE Teacher(name VARCHAR(20),Domain VARCHAR(20),Department VARCHAR(20));



🖎 SQL OnLine IDE		X Reg - Assignment -Phase 1 - mul X SQL Tutorial	× +		V - □ >
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₽ SQLite	~	# SQLite		B 13 0	History
Table		1 CREATE TABLE Teacher(name VARCHAR(20), Domain VARCHAR(20)	,Department VARCHAR(20));		Syntax History
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INSERT

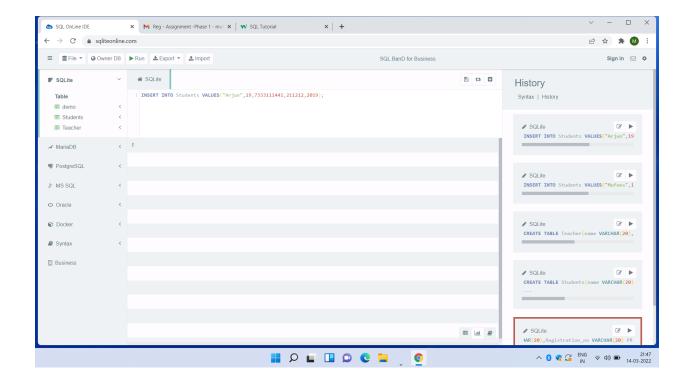
STUDENTS

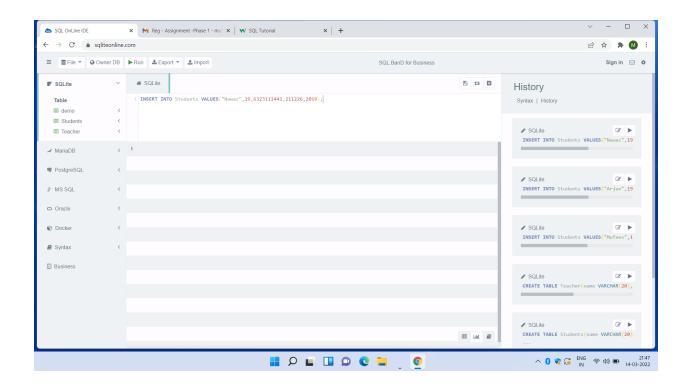
INSERT INTO Students VALUES("Mufees",19,9881222121,211211,2019);
INSERT INTO Students VALUES("Arjun",19,7333111441,211212,2019);
INSERT INTO Students VALUES("Nawaz",19,6323111441,211226,2019);
INSERT INTO Students VALUES("Manoj",19,6313122442,211231,2019);
INSERT INTO Students VALUES("Madhav",20,6213212112,211241,2020);
INSERT INTO Students VALUES("Harish",20,6443292110,211221,2020);
INSERT INTO Students VALUES("Sabariesh",20,6221292112,211311,2020);

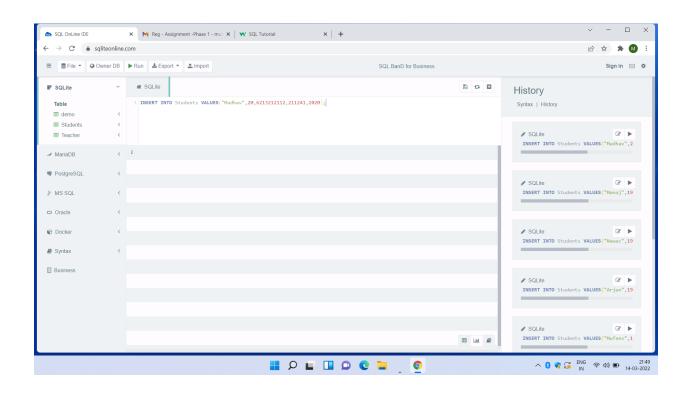
INSERT INTO Students VALUES("Laxhman", 18,6331292112,311251,2021);

INSERT INTO Students VALUES("Arun", 18,6331292111,311211,2021);

INSERT INTO Students VALUES("John", 19,61312121321,311221,2020);







Teacher

INSERT INTO Teacher VALUES("Danial","Cyber Security","Information Technology");

INSERT INTO Teacher VALUES("Savitha","Web Developer","Information Technology");

INSERT INTO Teacher VALUES("Raman","Virtual Reality","Computer Science ");

INSERT INTO Teacher VALUES("Raju", "Blockchain", "Information Technology");

INSERT INTO Teacher VALUES("Ravi", "Blockchain", "Information Technology");

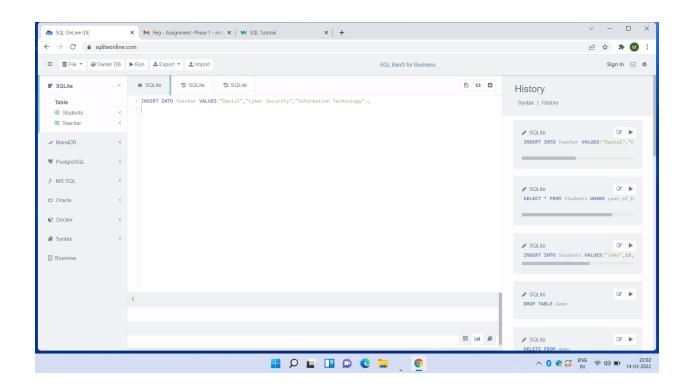
INSERT INTO Teacher VALUES("Swami","Mobile Technology","Computer Science");

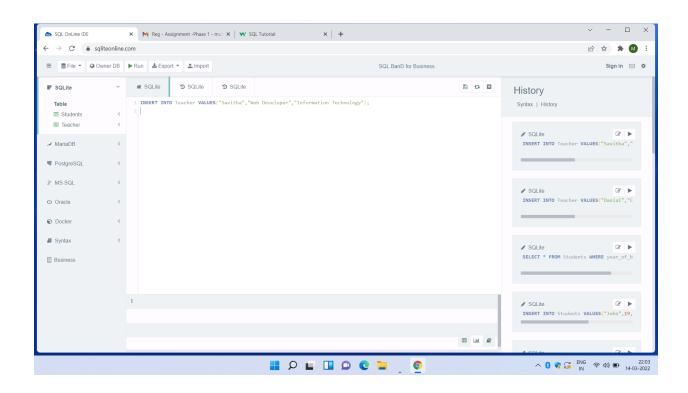
INSERT INTO Teacher VALUES("Arthi", "Machine Learning", "Information Technology");

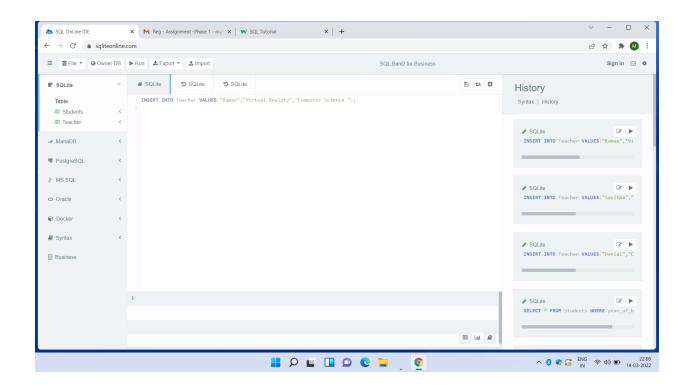
INSERT INTO Teacher VALUES("Varma","Internet of Things","Electrical Communication Engineering");

INSERT INTO Teacher VALUES("Priya", "Front End Developer", "Information Technology");

INSERT INTO Teacher VALUES("Santhosh", "Back End Developer", "Information Technology");



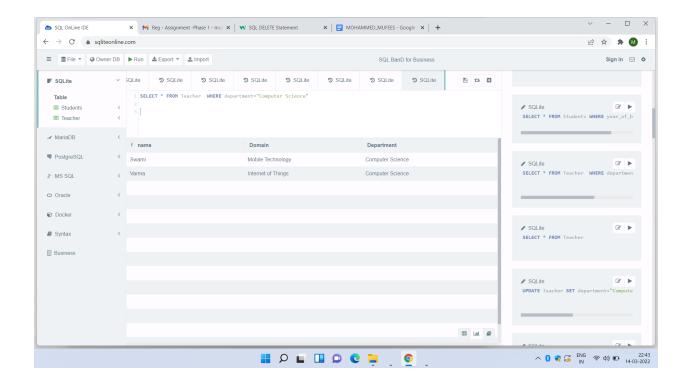


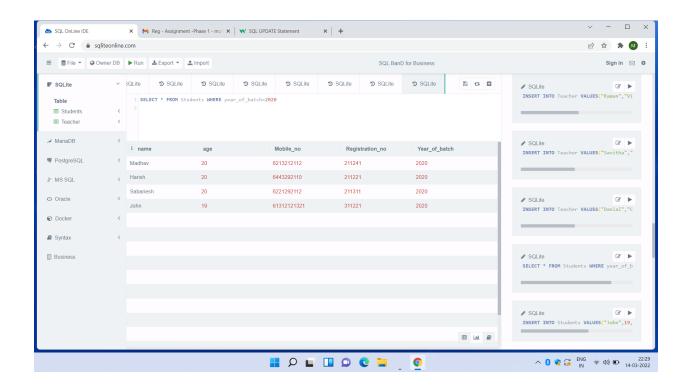


VIEW

SELECT * FROM Students WHERE year_of_batch=2020

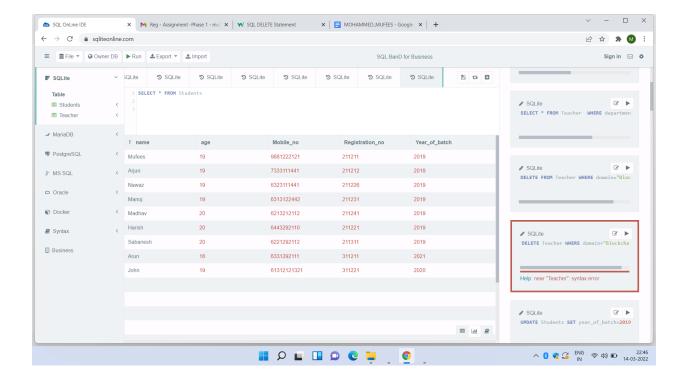
SELECT * FROM Teacher WHERE department="Computer Science"





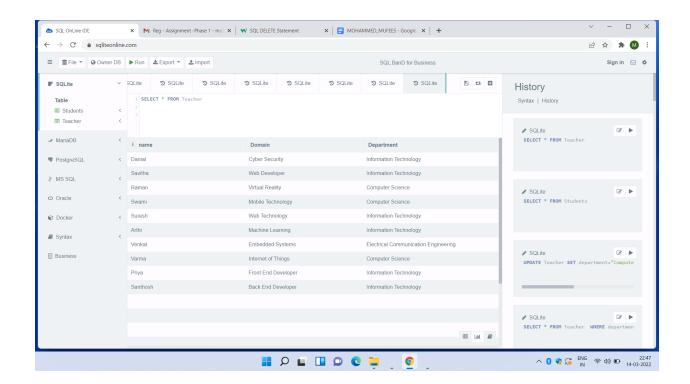
UPDATE

UPDATE Students SET year_of_batch=2019 WHERE age=20



DELETE

DELETE FROM Teacher WHERE domain="Blockchain"



ASSIGNMENT-2

Bank details

```
package com.InterestCalculator;
//Bankdetails class is used Get information about the bank
public class BanksDetails {
  //Variable declarition for Bank details
  public String name;
  public String ID;
  public String IFSC;
  public String MICRcode;
  public String ph no;
  public String location;
  //Constructor For Bankdetails class
  public BanksDetails(String name, String ID, String IFSC, String MICRcode,
String ph no, String location) {
    this.name = name;//Name
    this.ID = ID:
    this.IFSC = IFSC;
    this.MICRcode = MICRcode;
    this.ph no = ph no;
    this.location=location;
  }
  //Display Method for Bank details Attibutes
  public void GetDetials(){
    System.out.println("Bank Name:"+name);
    System.out.println("");
    System.out.println("BankID:"+ID);
    System.out.println("IFCS :"+IFSC);
    System.out.println("MICRcode :"+MICRcode);
    System.out.println("");
```

Interest Class

```
package com.InterestCalculator;
//Interest Class that extends Bankdetials
public class Interest extends BanksDetails{
  //Constructor For Interest Class
  public Interest(String name, String ID, String IFSC, String MICRcode, String
ph no, String location) {
    //Super Class (Bank details) Constructor
     super(name, ID, IFSC, MICRcode, ph no, location);
  }
  private int ploan;//Rate of Interest for personal loan
  private int hloan;//Rate of Interest for Housing loan
  private int eloan;//Rate of Interst for Education loan
  private int gloan;//Rate of Interest for Gold loan
  private int hyear;//Period of Time for Housing loan
  private int pyear;//Period of Time for Personal loan
  private int eyear;//Period of time for Education loan
  private int gyear;//Period of time for Gold Loan
  //Setter method For Interest Class
  public void setInterest(int ploan,int hloan,int eloan,int gloan,int pyear,int
hyear,int eyear,int gyear ){
     this.ploan=ploan;
     this.eloan=eloan;
     this.hloan=hloan;
     this.gloan=gloan;
     this.pyear=pyear;
     this.hyear=hyear;
     this.gyear=gyear;
     this.eyear=eyear;
  }
  //Getter Method For Interest class
  public int getPloan() {
```

```
return ploan;
public int getHloan() {
  return hloan;
}
public int getEloan() {
  return eloan;
public int getGloan() {
  return gloan;
}
public int getHyear() {
  return hyear;
public int getPyear() {
  return pyear;
}
public int getEyear() {
  return eyear;
}
public int getGyear() {
  return gyear;
```

```
}
Calculation Class
package com.InterestCalculator;
//Calculation class is polymorphism class
public class Calculations {
//This method is used to calculate Personal ,Housing ,Education loan Interests
public int calculate interest(int Principal amount,int Rate of interest,int
Period of Time){
  int interest=(Principal amount*Rate of interest*Period of Time)/100;
  return interest:
//This method is used to calculate Gold load interest
public int calculate interest(int no of grams,int Rate of interest,int
Period of Time, int Cost) {
  int intertest=(no of grams*Cost*Rate of interest*Period of Time)/100;
  return intertest:
}
}
Display Class
package com.InterestCalculator;
//Display Class
public class Display {
  //Display Method
  public void display(String name, String phone, String Acc, String Typeofloan, int
interest){
```

System.out.println("User Name: "+name);//User name

System.out.println("Acc No: "+Acc);//Account number

System.out.println("Phone Number: "+phone);//Phone number

```
System.out.println("Typeofloan: "+Typeofloan);//Type of loan
    System.out.println("Total Interest: "+(double)interest);//Total Interest
    System.out.println("Interest per month: "+(double)interest/12);//Interest per
month
  }
Main Class
package com.InterestCalculator;
import java.util.Locale;
import java.util.Scanner;
public class Main {
  public static void main(String[] args) {
    //Creating Object For various Banks SBI, Indian Bank, HDFC, Axis, Karur
Vysya Bank
    Interest SBI=new Interest("State Bank of
India","192311FE11","190GT178999","11111ERT","9876451122","Bangalore");
    Interest IB=new Interest("Indian
Bank","1222FRT000","18FGTHSSSR","9088876661","8689010001","Chennai");
    Interest HDFC=new Interest("HDFC
Bank","15677QQQ","190FRTT","789112342","9856612311","Mumbai");
    Interest Axis=new
Interest("Axis","16YTRETQ","1FRTQ000","891223452","6375412311","Delhi");
    Interest KVB=new Interest("Karur Vysya
Bank","17FTQTY","187FDRT001","809877771","7891113211","Karur");
    //Setting rate of interest for personal, Education, Gold, Hosuing Loan For arious
Banks
    SBI.setInterest(6,7,5,8,15,20,5,12);
    IB.setInterest(8,7,6,4,10,15,6,12);
    HDFC.setInterest(7,8,7,9,14,16,5,12);
    Axis.setInterest(8,9,5,4,10,12,6,12);
```

```
//Scanner Class For getting user input
    Scanner sc=new Scanner(System.in);
    System.out.println("Enter the name");
    String n=sc.next();//Getting user name
    System.out.println("Enter the Account Number");
    String acc=sc.next();//Getting user Account
    System.out.println("Enter the phone Number");
    String ph=sc.next();//Getting User Phone number
     System.out.println();//Printing Empty line For space
    //Displaying Avaliable Banks
    System.out.println("Press 1 For SBI");
    System.out.println("Press 2 For Indian Bank");
    System.out.println("Press 3 For HDFC");
    System.out.println("Press 4 for Axis");
    System.out.println("Press 5 for KVB");
    System.out.println();
    System.out.println("Enter the Choice");
    int c=sc.nextInt();
    //Creating Object For Calculations classs
    Calculations s=new Calculations();
    //Creating Object For Calculation
    Display d=new Display();
    //Switch case For selecting the Bank
    switch (c) {
       case 1://SBI
         //Printing The Types of loans
          System.out.println("Enter 1 for housing loan");
          System.out.println("Enter 2 for personal loan");
          System.out.println("Enter 3 for goldloan");
          System.out.println("Enter 4 for educationloan");
         int tloan = sc.nextInt();//Selecting the loan type using the user input and
if statement
         if (tloan == 1) {
            System.out.println("Enter The principal amount");
```

KVB.setInterest(5,4,3,6,9,10,5,12);

```
int p = sc.nextInt();
              int interest= s.calculate interest(p,SBI.getHloan(),
SBI.getHyear());//Passing The parameters Calculation class For getting interest
              d.display(n,ph,acc,"Housing Loan",interest);//Display userDetails
and interest
          } else if (tloan == 2) {
            System.out.println("Enter The principal amount");
            int p = sc.nextInt();
            int interest= s.calculate interest(p,SBI.getPloan(), SBI.getPyear());
            d.display(n,ph,acc,"Personal Loan",interest);
          } else if (tloan == 3) {
            System.out.println("Enter The number of Grams");
            int g = sc.nextInt();
            int cost=2500;
            int interest= s.calculate interest( g,SBI.getGloan(),
SBI.getGyear(),cost);
            d.display(n,ph,acc,"Gold Loan",interest);
          } else if (tloan == 4) {
            System.out.println("Enter The principal amount");
            int p = sc.nextInt();
            int interest= s.calculate interest(p,SBI.getEloan(),SBI.getEyear());
            d.display(n,ph,acc,"Education Loan",interest);
          }
          break:
       case 2://Indian Bank
          System.out.println("Enter 1 for housing loan");
          System.out.println("Enter 2 for personal loan");
          System.out.println("Enter 3 for goldloan");
          System.out.println("Enter 4 for educationloan");
          int tloan1 = sc.nextInt();
          if (tloan 1 == 1) {
            System.out.println("Enter The principal amount");
            int p = sc.nextInt();
            int interest= s.calculate interest(p,IB.getHloan(), IB.getHyear());
```

```
d.display(n,ph,acc,"Housing Loan",interest);
          } else if (tloan1 == 2) {
            System.out.println("Enter The principal amount");
            int p = sc.nextInt();
            int interest= s.calculate interest(p,IB.getPloan(), IB.getPvear());
            d.display(n,ph,acc,"Personal Loan",interest);
          } else if (tloan1 == 3) {
            System.out.println("Enter The number of Grams");
            int g = sc.nextInt();
            int cost=2500;
            int interest= s.calculate interest( g,IB.getGloan(), IB.getGyear(),c);
            d.display(n,ph,acc,"Gold Loan",interest);
          } else if (tloan1 == 4) {
            System.out.println("Enter The principal amount");
            int p = sc.nextInt();
            int interest= s.calculate interest(p,IB.getEloan(),IB.getEyear());
            d.display(n,ph,acc,"Education Loan",interest);
          break;
       case 3://HDFC
          System.out.println("Enter 1 for housing loan");
          System.out.println("Enter 2 for personal loan");
          System.out.println("Enter 3 for goldloan");
          System.out.println("Enter 4 for educationloan");
          int tloan2 = sc.nextInt();
          if (tloan2 == 1) {
            System.out.println("Enter The principal amount");
            int p = sc.nextInt();
            int interest= s.calculate interest(p,HDFC.getHloan(),
HDFC.getHyear());
            d.display(n,ph,acc,"Housing Loan",interest);
          \} else if (tloan2 == 2) {
            System.out.println("Enter The principal amount");
            int p = sc.nextInt();
```

```
int interest= s.calculate interest(p,HDFC.getPloan(),
HDFC.getPyear());
            d.display(n,ph,acc,"Personal Loan",interest);
          } else if (tloan2 == 3) {
            System.out.println("Enter The number of Grams");
            int g = sc.nextInt();
            int cost=2500;
            int interest= s.calculate interest( g,HDFC.getGloan(),
HDFC.getGyear(),c);
            d.display(n,ph,acc,"Gold Loan",interest);
          } else if (tloan2 == 4) {
            System.out.println("Enter The principal amount");
            int p = sc.nextInt();
            int interest= s.calculate interest( p,HDFC.getEloan(),
HDFC.getEyear());
            d.display(n,ph,acc,"Education Loan",interest);
          break;
       case 4://Axis
          System.out.println("Enter 1 for housing loan");
          System.out.println("Enter 2 for personal loan");
          System.out.println("Enter 3 for goldloan");
          System.out.println("Enter 4 for educationloan");
          int tloan3 = sc.nextInt();
          if (tloan3 == 1) {
            System.out.println("Enter The principal amount");
            int p = sc.nextInt();
            int interest= s.calculate interest(p,Axis.getHloan(), Axis.getHyear());
            d.display(n,ph,acc,"Housing Loan",interest);
          \} else if (tloan3 == 2) {
            System.out.println("Enter The principal amount");
            int p = sc.nextInt();
```

```
int interest= s.calculate interest(p,Axis.getPloan(), Axis.getPyear());
            d.display(n,ph,acc,"Personal Loan",interest);
          } else if (tloan3 == 3) {
            System.out.println("Enter The number of Grams");
            int g = sc.nextInt();
             int cost=2500;
            int interest= s.calculate interest( g,Axis.getGloan(),
Axis.getGyear(),cost);
            d.display(n,ph,acc,"Gold Loan",interest);
          } else if (tloan3 == 4) {
            System.out.println("Enter The principal amount");
            int p = sc.nextInt();
            int interest= s.calculate interest(p,Axis.getEloan(), Axis.getEyear());
            d.display(n,ph,acc,"Education Loan",interest);
          break;
       case 5://KVB
          System.out.println("Enter 1 for housing loan");
          System.out.println("Enter 2 for personal loan");
          System.out.println("Enter 3 for goldloan");
          System.out.println("Enter 4 for educationloan");
         int tloan4 = sc.nextInt();
         if (tloan4 == 1) {
            System.out.println("Enter The principal amount");
            int p = sc.nextInt();
            int interest= s.calculate interest(p,KVB.getHloan(),
KVB.getHyear());
            d.display(n,ph,acc,"Housing Loan",interest);
          } else if (tloan4 == 2) {
            System.out.println("Enter The principal amount");
            int p = sc.nextInt();
            int interest= s.calculate interest( p,KVB.getPloan(), KVB.getPyear());
            d.display(n,ph,acc,"Personal Loan",interest);
          } else if (tloan4 == 3) {
```

```
System.out.println("Enter The number of Grams");
int g = sc.nextInt();
int cost=2500;
int interest= s.calculate_interest( g,KVB.getGloan(),

KVB.getGyear());
d.display(n,ph,acc,"Gold Loan",interest);
} else if (tloan4 == 4) {
System.out.println("Enter The principal amount");
int p = sc.nextInt();
int interest= s.calculate_interest( p,KVB.getEloan(), KVB.getEyear());
d.display(n,ph,acc,"Housing Loan",interest);
}
break;
}
```

Output

