```
package TaxCalculation;

import java.util.Scanner;

 class Mainmenu{
      public Mainmenu() {
           while(true) {
           System.out.println("1.PROPERTY TAX");
           System.out.println("2.VEHICLE TAX");
           System.out.println("3.TOTAL");
           System.out.println("4.EXIT");
           System.out.println("Enter your choice");
           Scanner sc = new Scanner(System.in);
           int ch=sc.nextInt();
                switch(ch) {

                case 1 :   propertyMenu pm= new propertyMenu();
                               pm.propertyMenu();
                               break;


                case 2 :  VehicleMenu v = new VehicleMenu();
                             break;

                case 3 :  Display();
                             break;
                case 4 :  System.out.println("Thanks visit again");
                             System.exit(0);
                             break;
                default : System.out.println("enter correct choice");
                           }
      }
      }

     private void Display() {

           int id=propertyMenu.propertyQuantity();
          double ptot=propertyMenu.propertyTotal();
           int t=VehicleMenu.vehicleQuantity();
           double vtot=VehicleMenu.VehicleTotal();

           System.out.println("+-------------------------------------
------------------------------+");
           System.out.println("| SR. NO.         PARTICULAR
     QUANTITY   TAX|");
```

```
            System.out.println("+-------------------------------------
------------------------------+");
            System.out.println("| 1          PROPERTIES          "+id+"
      "+ptot+"|");
            System.out.println("| 2          VEHICLES
"+t+"       "+vtot+"|");
            System.out.println("+-------------------------------------
------------------------------+");
            System.out.println("|   TOTAL          ----------
"+(id+t)+"          "+(ptot+vtot)+"|");
            System.out.println("+-------------------------------------
------------------------------+");



      }

 }

public class TaxMain {

      public static void main(String args[])
      {
            System.out.println("+--------------------------------+");
            System.out.println("| WELCOME TO TAX CALCULATION APP |");
            System.out.println("+--------------------------------+");
            System.out.println("PLEASE LOGIN TO CONTINUE");
            System.out.print("USERNAME - ");
            Scanner sc = new Scanner(System.in);
            String uname=sc.next();
            System.out.print("PASSWORD - ");
            String pass=sc.next();
            if(uname.equals("admin") && pass.equals("admin123"))
            {
                  Mainmenu menu= new Mainmenu();
            }
            else
            {
                  System.out.println("you have entered wrong data try
again");

            }

      }
}
```

//property

```
package TaxCalculation;

import java.util.Scanner;

public class propertyMenu {
       static int id,pid;
      private static double ptot;
      static int[] base = new int[10];
      static int[] area = new int[10];
      static int[] age = new int[10];
      static double[] pt = new double[10];
      static String[] land = new String[10];
      static int propertyQuantity() {
            return id;
      }
      static double propertyTotal() {
            return ptot;
      }

      private static void display() throws
ArrayIndexOutOfBoundsException{

System.out.println("==================================================
================================================");
          System.out.println("id  BUILD UP AREA         BASE PRICE
      AGE(YEARS)            IN CITY    PROPERTY TAX");

System.out.println("==================================================
================================================");

          for(int i=1;i<=id;i++) {
          System.out.printf("%1d   %14d %20d %16d %18s %23.2f
\n",i,area[i],base[i],age[i],land[i],pt[i]);
          }

System.out.println("==================================================
================================================");
}
       static void propertyMenu()  {


            Scanner sc = new Scanner(System.in);
            while(true) {
             System.out.println("1. ADD PROPERTY DETAILS");
```

```
            System.out.println("2.CALCULATE PROPERTY TAX");
            System.out.println("3.DISPLAY ALL PROPERTIES");
            System.out.println("4.BACK TO MAIN MENU");
            System.out.println("enter your choice");
            int c =sc.nextInt();
                switch(c) {

                    case 1 : System.out.println("enter the property
details -");
                                System.out.println("enter the
property id -");
                                id = sc.nextInt();
                                System.out.println("enter the base
value of the land");
                                base[id] =sc.nextInt();
                                System.out.println("enter the build
up area of the land");
                                area[id] = sc.nextInt();
                                System.out.println("enter the age of
land in years");
                                age[id] = sc.nextInt();
                                System.out.println(" is the land
located in city? Y: Yes, N: No");
                                land[id] =sc.next();
                                if(land[id].equals("Y")) {

pt[id]=(area[id]*age[id]*base[id])+((1/2)*area[id]);

                                }
                                else {

pt[id]=area[id]*age[id]*base[id];
                                }
                                System.out.println("Values entered
successfully");
                                ptot = pt[id]+ptot;
                                break;
                    case 2 :
                                display();
                                System.out.println("Enter the
Property id to Calculate Tax -");
                                pid = sc.nextInt();
                                System.out.println("Property Tax for
Property id -"+pid+"is"+pt[id]);
                                break;
                    case 3 : display();
```

```
                                    break;

                        case 4 : Mainmenu m = new Mainmenu();

                        default : System.out.println("enter correct
choice");
                                }

      }
      }
}


// vehicle

package TaxCalculation;

import java.util.Scanner;

public class VehicleMenu {
      private static int t=1,rid,s=0;
      private static double vtot;
      static int[] reg = new int[10];
      static int[] velocity = new int[10];
      static int[] seats = new int[10];
      static int[] temp = new int[10];
      static double[] cost = new double[10];
      static double[] vt = new double[10];
      static String[] brand = new String[10];
      static String[] type = new String[10];
      public VehicleMenu()
      {
            Scanner sc = new Scanner(System.in);
            while(true) {
            System.out.println("1.ADD VEHICLE DETAILS");
            System.out.println("2.CALCULATE VEHICLE TAX");
            System.out.println("3.DISPLAY ALL VEHICLES");
            System.out.println("4.BACK TO MAIN MENU");
            System.out.println("enter your choice");
            int c =sc.nextInt();
                  switch(c) {
                  case 1 :  System.out.println("ENTER THE VEHICLE
REGISTRATION NUMBER -");
                              reg[t]= sc.nextInt();
```

```
                              System.out.println("ENTER BRAND OF THE
VEHICLE -");
                              brand[t] = sc.next();
                              System.out.println("ENTER THE MAXIMUM
VELOCITY OF THE VEHICLE(KMPH) -");
                              velocity[t] = sc.nextInt();
                              System.out.println("ENTER CAPACITY(NUMBER
OF SEATS) OF THE VEHICLE -");
                              seats[t] = sc.nextInt();
                              System.out.println("CHOOSE THE TYPE OF
THE VEHICLE - \n 1.PETROL DRIVEN \n 2. DIESEL DRIVEN \n 3. CNG/LPG
DRIVEN");
                              temp[t] = sc.nextInt();
                              System.out.println(temp[t]);
                              System.out.println("ENTER THE PURCHASE
COST OF THE VEHICLE -");
                              cost[t] = sc.nextDouble();
                              if(temp[t]==1) {
                                    type[t]="Petrol";

vt[t]=velocity[t]+seats[t]+(0.1*cost[t]);
                              }
                              else
                                    if(temp[t]==2) {
                                          type[t]="Diesel";

vt[t]=velocity[t]+seats[t]+(0.11*cost[t]);
                                    }
                                    else
                                    {
                                          type[t]="CNG/LPG";

vt[t]=velocity[t]+seats[t]+(0.12*cost[t]);
                                    }
                              vtot = vt[t]+ vtot;
                              s=t;
                              t++;
                              break;

                  case 2 :  System.out.println("ENTER THE REGISTRATION
NO OF VEHICLE TO CALCULATE THE TAX - ");
                              rid = sc.nextInt();
                              for( int i=1;i<=t;i++)
                              {
                                    if(reg[i]==rid) {
```

```
                                                System.out.println("VEHICLE
TAX FOR REGISTRATION NO - "+rid+"IS"+vt[i]);
                                            }
                                            else {

System.out.println("REGISTRATION NO NOT FOUND");
                                }
                                   }

                case 3 :   display();
                              break;
                case 4 :   Mainmenu m = new Mainmenu();
                              break;
                default : System.out.println("ENTER THE CORRECT
CHOICE");
                }
     }
     }
     private void display() {

     System.out.println("=============================================
=================================================================
===========");
          System.out.println("REGISTRATION NO          BRAND
     MAX. VELOCITY          NO OF SEATS    VEHICLE TYPE     PURCHASE
COST   VEHICLE TAX");

System.out.println("=================================================
=================================================================
======");

          for(int i=1;i<t;i++) {
          System.out.printf("%1d %25s %17d %20d %20s %17.2f %16.2f
\n",reg[i],brand[i],velocity[i],seats[i],type[i],cost[i],vt[i]);
          }

System.out.println("=================================================
=================================================================
======");

     }
     public static int vehicleQuantity() {
          return s;
     }
     public static double VehicleTotal() {
```

```
            return vtot;
        }

    }
```