***4.) The Election Commission requires the following task to be done. A class Voter with ID, cname, age and address as fields. Write toString(), getter methods and setData() method. TheVoterDemo has main () method which reads and stores data of 10 voters and displays a menu with following operations:***

***a) Add new voter.***

***b) Search voter based on ID.***

**Solution :>**

***//SubMethod:***

package Electricity;

import java.util.Scanner;

import java.util.\*;

public class Voter {

static long id;

static String name;

static int age;

static String address;

Voter(long i, String n, int ag, String a)

{

id=i;

name=n;

age=ag;

address=a;

}

public Long getID()

{

return id;

}

public String getName()

{

return name;

}

public long getAge()

{

return age;

}

public String getAddress()

{

return address;

}

public void setID(Long i)

{

id=i;

}

public void setName(String n)

{

name=n;

}

public void setAge(int ag)

{

age=ag;

}

public void setAddress(String a)

{

address=a;

}

public String toString()

{

String str;

str=String.format("ID: %s%n Name: %s%n Age: %s%n Address: %s%n",getID(),getName(),getAge(),getAddress());

return str;

}

}

***//MainMethod:***

package Electricity;

import java.util.ArrayList;

import java.util.Scanner;

public class VoterDemo {

private static Scanner sc;

private static ArrayList<Voter> arobj;

public static void initialize()

{

sc=new Scanner(System.in);

arobj=new ArrayList<Voter>();

}

public static Voter getVoterDict()

{

System.out.println("Enter the following: (ID, Name, Age, Address)=> ");

return new Voter(sc.nextLong(),sc.next(),sc.nextInt(),sc.next());

}

public static void SearchID()

{

System.out.println("Enter ID Number to Search");

long search=sc.nextLong();

for(Voter tobj:arobj)

{

if(tobj.getID()==search)

{

System.out.println("ID found.");

System.out.println(tobj);

return;

}

System.out.println("ID is not found.");

}

}

public static int menuOption()

{

System.out.println("1.Add Voter Details");

System.out.println("2.Search Based on ID");

System.out.println("3.Exit");

System.out.println("Enter your choice");

return sc.nextInt();

}

public static void main(String[] args)

{

int ch;

initialize();

while(true)

{

ch=menuOption();

switch(ch)

{

case 1:

arobj.add(getVoterDict());

break;

case 2:

SearchID();

break;

case 3:

System.exit(0);

}

}

}

}