Assignment::

public class Friends {

private int id;

private String fname;

private String lname;

private String hobbies;

private String mob;

private String email;

private String add;

public

Friends()

{

int id=0;

String fname="Not Define";

String lname="Not Define";

String hobbies="Not Define";

String mob="Not Define";

String email="Not Define";

String add="Not Define";

}

Friends(int id,String fname,String lname,String hobbies,String mob,String email,String add)

{

this.id=id;

this.fname=fname;

this.lname=lname;

this.hobbies=hobbies;

this.mob=mob;

this.email=email;

this.add=add;

}

public int getId() {

return id;

}

public void setId(int id) {

this.id = id;

}

public String getFname() {

return fname;

}

public void setFname(String fname) {

this.fname = fname;

}

public String getLname() {

return lname;

}

public void setLname(String lname) {

this.lname = lname;

}

public String getHobbies() {

return hobbies;

}

public void setHobbies(String hobbies) {

this.hobbies = hobbies;

}

public String getMob() {

return mob;

}

public void setMob(String mob) {

this.mob = mob;

}

public String getEmail() {

return email;

}

public void setEmail(String email) {

this.email = email;

}

public String getAdd() {

return add;

}

public void setAdd(String add) {

this.add = add;

}

}

import java.util.Scanner;

public class FriendMethode {

static Scanner sc=new Scanner(System.in);

public static Friends acceptData(Friends f1) {

System.out.println("Enter Friends Id:");

int id=sc.nextInt();

System.out.println("Enter First Name:");

sc.nextLine();

String fname=sc.nextLine();

System.out.println("Enter Last Name:");

String lname=sc.nextLine();

System.out.println("Enter Hobbie:");

String hobbies=sc.nextLine();

System.out.println("Enter Mobile No:");

String mob=sc.nextLine();

System.out.println("Enter Email:");

String email=sc.nextLine();

System.out.println("Enter Address:");

String add=sc.nextLine();

f1=new Friends(id,fname,lname,hobbies,mob,email,add);

return f1;

}

public static void Display(Friends[] f1)

{

for(int i=0;i<f1.length;i++)

{

System.out.println("Id: "+f1[i].getId() );

System.out.println("FName: "+f1[i].getFname() );

System.out.println("LName: "+f1[i].getLname() );

System.out.println("Hobbies: "+f1[i].getHobbies() );

System.out.println("Mobile No: "+f1[i].getMob() );

System.out.println("Email: "+f1[i].getEmail() );

System.out.println("Address: "+f1[i].getAdd() );

}

}

public static int SearchbyId(Friends[] f1,int id)

{

for(int i=0;i<f1.length;i++)

{

if(f1[i].getId()==id)

{

return i;

}

}

return -1;

}

public static int SearchbyFname(Friends[] f1,String name)

{

for(int i=0;i<f1.length;i++)

{

if((f1[i].getFname()).equals(name))

{

return i;

}

}

return -1;

}

public static void SearchFriendsWithhobbies(Friends[] f1,String hobbies)

{

for(int i=0;i<f1.length;i++)

{

if((f1[i].getHobbies()).equals(hobbies))

{

System.out.println("FName: "+f1[i].getFname() );

return;

}

}

{

System.out.println("No Friend Found With Hobies");

}

}

}

import java.util.Scanner;

public class Friendmain {

public static void main(String[] args) {

Friends[] f1= new Friends[2];

Scanner sc = new Scanner(System.in);

for(int i=0;i<f1.length;i++)

{

f1[i]=FriendMethode.acceptData(f1[i]);

}

int choice=0;

do {

System.out.println("Enter Your Choice :");

System.out.println("1.Display Friends");

System.out.println("2.Search By Id");

System.out.println("3.Search By Name");

System.out.println("4.Search Friends With hobbies");

System.out.println("5.Exit.");

choice=sc.nextInt();

switch(choice){

case 1:

FriendMethode.Display(f1);

break;

case 2:

System.out.println("Enter Id You Want To Search:");

int id=sc.nextInt();

int num=FriendMethode.SearchbyId(f1,id);

if(num==-1)

{

System.out.println("\n Friend Id Is Not Found In Array");

}

else{

System.out.println("\n Friend Id Is Found In Array at Position "+num);

}

break;

case 3:

System.out.println("Enter Fname You Want To Search:");

sc.nextLine();

String name=sc.nextLine();

int n1=FriendMethode.SearchbyFname(f1,name);

if(n1==-1)

{

System.out.println("\n Friend Fname Is Not Found In Array");

}

else{

System.out.println("\n Friend Fname Is Found In Array at Position "+n1);

}

break;

case 4:

sc.nextLine();

System.out.println("Enter Hobbie You Want To Search:");

String hobbie=sc.nextLine();

FriendMethode.SearchFriendsWithhobbies(f1,hobbie);

break;

case 5:

System.exit(0);

default:

System.out.println("Invalid Choice");

}

}while(choice!=5);

sc.close();

}

}