import java.util.\*;

import java.io.\*;

public class Main

{

public static void main(String[] args) {

// [Default] Displaying choices

Scanner sc = new Scanner(System.in);

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

System.out.println("2.View Single Employee Details");

System.out.println("3.View All Employee Details");

System.out.println("4.Update Employee Details");

System.out.println("5.DeleteEmployee Details");

System.out.println("6.Exit");

//choices

int i=0;

//Create an object of AddEmployeeDetails class to access all methods

AddEmployeeDetails add = new AddEmployeeDetails();

while(i!=6)

{

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

i=sc.nextInt();

if(i>=1&&i<=6)

{

switch(i)

{

//Case 1 - Add Details

case 1:

{

System.out.println("Enter Name of the Employee :");

String ename=sc.next();

System.out.println("Enter ID of the Employee :");

int eid=sc.nextInt();

System.out.println("Enter MobileNumber of the Employee :");

String emobile=sc.next();

System.out.println("Enter Email ID of the Employee :");

String eemailid=sc.next();

System.out.println("Enter Salary of the Employee :");

int esalary=sc.nextInt();

System.out.println("Enter Gender of the Employee :");

String egender=sc.next();

System.out.println("Enter Address of the Employee :");

String eaddress=sc.next();

System.out.println("Enter Date of Birth of the Employee :");

String edob=sc.next();

System.out.println("Enter Date of Joining of the Employee :");

String edoj=sc.next();

System.out.println("Enter Experienceof the Employee :");

int eexp=sc.nextInt();

//Using 'add' object of class 'AddEmployeeDetails', we are accessing the method - 'AddDetails' to add the details.

add.AddDetails(ename,eid,esalary,emobile,eemailid,egender,eaddress,edob,edoj,eexp);

break;

}

//Case 2 - View Single Employee Details

case 2:

{

System.out.println("Enter employee id :");

int eid=sc.nextInt();

//166

add.Search(eid);

break;

}

//Case 3 - View all employee details

case 3:

{

//190

add.ShowAll();

break;

}

//Case 4 - Update Detials

case 4:

{

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

int epid=sc.nextInt();

System.out.println("Enter Employee new Salary :");

int eesal=sc.nextInt();

//257

add.Update(epid,eesal);

}

//Case 5 - Delete Employee Detials

case 5:

{

System.out.println("Enter Employee id to delete");

int eeid=sc.nextInt();

//220

add.Delete(eeid);

break;

}

}

}

}

}

}

// Class Node represents the Employee

class Node{

Node next;

String name;

int id;

int salary;

String mobilenumber;

String emailid;

String gender;

String address;

String dob;

String doj;

int exp;

Node(String name,

int id,

int salary,

String mobilenumber,

String emailid,

String gender,

String address,

String dob,

String doj,

int exp)

{

this.id=id;

this.name=name;

this.salary=salary;

this.mobilenumber=mobilenumber;

this.emailid=emailid;

this.gender=gender;

this.dob=dob;

this.doj=doj;

this.exp=exp;

this.address=address;

}

}

//This class contains all the necessary methods

class AddEmployeeDetails{

Node head,newNode,temp;

void AddDetails(

String name,

int id,

int salary,

String mobilenumber,

String emailid,

String gender,

String address,

String dob,

String doj,

int exp){

newNode = new Node(name,id,salary,mobilenumber,emailid,gender,address,dob,doj,exp);

if(head == null)

head = newNode;

else

{

for(temp = head;temp.next!=null;temp=temp.next);

temp.next=newNode;

}

System.out.println("Employee details added successfully");

}

void Search(int n)

{

for(temp = head;temp!=null;temp=temp.next)

{

if(temp.id == n)

{

break;

}

}

System.out.println("Employee Name: "+temp.name);

System.out.println("Employee Id: "+temp.id);

System.out.println("Employee Salary: "+temp.salary);

System.out.println("Employee MobileNumber: "+temp.mobilenumber);

System.out.println("Employee address: "+temp.address);

System.out.println("Employee Email Id: "+temp.emailid);

System.out.println("Employee gender: "+temp.gender);

System.out.println("Employee Date Of Birth: "+temp.dob);

System.out.println("Employee Date of Joining: "+temp.doj);

System.out.println("Employee Experience: "+temp.exp+" Years");

}

void ShowAll()

{

System.out.println("Details of all the Employees are :");

for(temp=head;temp!=null;temp=temp.next)

{

System.out.println("Employee Name: "+temp.name);

System.out.println("Employee Id: "+temp.id);

System.out.println("Employee Salary: "+temp.salary);

System.out.println("Employee MobileNumber: "+temp.mobilenumber);

System.out.println("Employee address: "+temp.address);

System.out.println("Employee Email Id: "+temp.emailid);

System.out.println("Employee gender: "+temp.gender);

System.out.println("Employee Date Of Birth: "+temp.dob);

System.out.println("Employee Date of Joining: "+temp.doj);

System.out.println("Employee Experience: "+temp.exp+" Years");

System.out.println(" ");

}

}

void Delete(int n)

{

if(head == null)

{

System.out.println("No Details are present");

}

else if(head.next == null)

{

System.out.println("Employee Details with id :"+n+" is deleted");

head = null;

}

else

{

Node prev = null;

boolean found = false;

for(temp = head;temp!=null;temp=temp.next)

{

if(temp.id == n)

{

found = true;

break;

}

prev = temp;

}

if(found)

{

System.out.println("Employee Details with id :"+n+" is deleted");

prev.next = temp.next;

temp.next=null;

}

else

{

System.out.println("Enter valid Employee id");

}

}

}

void Update(int n,int eesal)

{

for(temp = head;temp!=null;temp=temp.next)

{

if(temp.id == n)

{

temp.salary=eesal;

}

}

System.out.println("Employee Details are updated");

}

}