/\*ROLLNUMBER:20R25A0401

Developing employee details Application\*/

import java.util.Scanner;

import java.util.HashMap;

import java.util.HashSet;

class Employee {

private int id;

private String name;

private long mobilenumber;;

private String email;

private String gender;

private String address;

private double salary;

private String DOB;

private String DOJ;;

public int getId()

{

return id;

}

public String getName()

{

return name;

}

public long getMobilenumber()

{

return mobilenumber;

}

public String getEmail()

{

return email;

}

public String getGender()

{

return gender;

}

public String getAddress()

{

return address;

}

public double getSalary()

{

return salary;

}

public String getDob()

{

return DOB;

}

public String getDoj()

{

return DOJ;

}

public void setId(int id)

{

this.id = id;

}

public void setName(String name)

{

this.name = name;

}

public void setMobilenumber(long mobilenumber)

{

this.mobilenumber = mobilenumber;

}

public void setEmail(String email)

{

this.email = email;

}

public void setGender(String gender)

{

this.gender = gender;

}

public void setAddress(String address)

{

this.address = address;

}

public void setSalary(double salary)

{

this.salary = salary;

}

public void setDob(String DOB)

{

this.DOB = DOB;

}

public void setDoj(String DOJ)

{

this.DOJ = DOJ;

}

public String toString() {

return "Employee [id="+ id +", name=" + name + ",mobilenumber =" + mobilenumber + ", email=" + email

+ ", gender=" + gender + ", address=" + address + ", salary=" + salary + ", DOB=" + DOB + ", DOJ=" + DOJ + " “+ "]";

}

public Employee(int id, String name, long mobilenumber, String email, String gender, String address, double salary, String DOB, String DOJ) {

this.id = id;

this.name = name;

this.mobilenumber = mobilenumber;

this.email = email;

this.gender = gender;

this.address = address;

this.salary = salary;

this.DOB = DOB;

this.DOJ = DOJ;

}

}

class EmployeeDetails {

HashSet<Employee> empset=new HashSet<Employee>();

Employee emp1=new Employee(101, "sriya", 779482276, "sriya@gmail.com", "female", "hyderabad", 28000.0, "27/08/2002", "23/8/2022");

Employee emp2=new Employee(102, "reema", 778976999, "reema@gmail.com","female", "hyderabad", 48000.0, "24/08/1998", "23/6/2022");

Employee emp3=new Employee(103, "dinnu", 779098999, "dinnu@gmail.com","male", "Delhi", 80000.0, "12/09/1997", "3/03/2021");

Employee emp4=new Employee(104, "Aditi", 779087909, "Aditi@gmail.com", "female", "pune", 90000.0, "12/09/1996", "3/03/2020");

Scanner sc=new Scanner(System.in);

boolean flag=false;

int id;

String name;

long mobilenumber;

String email;

String gender;

String address;

double salary;

String DOB;

String DOJ;

String experience;

public EmployeeDetails() {

empset.add(emp1);

empset.add(emp2);

empset.add(emp3);

empset.add(emp4);

}

public void viewallemployees() {

for(Employee emp:empset) {

System.out.println(emp);

}

}

public void viewemployee(){

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

id=sc.nextInt();

for(Employee emp:empset) {

if(emp.getId()==id) {

System.out.println(emp);

flag=true;

}

}

if(!flag) {

System.out.println("Employee with this id is not present");

}

}

public void updatemployee() {

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

id=sc.nextInt();

boolean flag=false;

for(Employee emp:empset) {

if(emp.getId()==id) {

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

name=sc.next();

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

mobilenumber=sc.nextLong();

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

email=sc.next();

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

gender=sc.next();

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

address=sc.next();

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

salary=sc.nextDouble();

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

DOB=sc.next();

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

DOJ=sc.next();

emp.setName(name);

emp.setMobilenumber(mobilenumber);

emp.setEmail(email);

emp.setGender(Gender);

emp.setAddress(address);

emp.setSalary(salary);

emp.setDob(DOB);

emp.setDoj(DOJ);

System.out.println("Updated Details of employee are: ");

System.out.println(emp);

flag=true;

}

}

if(!flag) {

System.out.println("Employee is not present");

}

else {

System.out.println("Employee details updated successfully !!");

}

}

public void deletemployee() {

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

id=sc.nextInt();

boolean flag=false;

Employee empdelete=null;

for(Employee emp:empset) {

if(emp.getId()==id) {

empdelete=emp;

flag=true;

}

}

if(!flag) {

System.out.println("Employee is not present");

}

else {

empset.remove(empdelete);

System.out.println("Employee deleted successfully!!");

}

}

public void addemployee() {

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

name=sc.next();

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

mobilenumber=sc.nextLong();

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

email=sc.next();

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

gender=sc.next();

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

address=sc.next();

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

salary=sc.nextDouble();

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

DOB=sc.next();

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

DOJ=sc.next();

Employee emp=new Employee(id, name, mobilenumber, email, gender, address, salary, DOB, DOJ, experience);

empset.add(emp);

System.out.println(emp);

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

}

}

public class Main {

EmployeeDetails ob=new EmployeeDetails();

static boolean S = true;

public static void choices() {

System.out.println("Employee Management System ");

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

System.out.println("2.View Employee details");

System.out.println("3.Update Employee details");

System.out.println("4. Delete Employee details");

System.out.println("5.View All Employee details");

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

}

public static void main(String[] args) {

Scanner sc=new Scanner(System.in);

EmployeeDetails ob=new EmployeeDetails();

do {

choices();

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

int choice=sc.nextInt();

switch(choice) {

case 1:

System.out.println("Add Employee details");

ob.addemployee();

break;

case 2:

System.out.println("View Employee details");

ob.viewemployee();

break;

case 3:

System.out.println("Update Employee details");

ob.updatemployee();

break;

case 4:

System.out.println("Delete Employee details");

ob.deletemployee();

break;

case 5:

System.out.println("view All Employee details");

ob.viewallemployees();

break;

case 6:

System.out.println("Thank you!");

System.exit(0);

default:

System.out.println("Please enter number between 1 to 6");

break;

}

}while(S);

}

}