**Assignment 1**

**Question1**

**package** com.oops.assignment;

**public** **class** Student {

**private** String name;

**private** **int** rollno;

**private** String phoneno;

**private** String email;

**public** Student() {

}

**public** Student(String name, **int** rollno, String phoneno, String email) {

**this**.name = name;

**this**.rollno = rollno;

**this**.phoneno = phoneno;

**this**.email = email;

}

**public** String getName() {

**return** name;

}

**public** **void** setName(String name) {

**this**.name = name;

}

**public** **int** getRollno() {

**return** rollno;

}

**public** **void** setRollno(**int** rollno) {

**this**.rollno = rollno;

}

**public** String getPhoneno() {

**return** phoneno;

}

**public** **void** setPhoneno(String phoneno) {

**this**.phoneno = phoneno;

}

**public** String getEmail() {

**return** email;

}

**public** **void** setEmail(String email) {

**this**.email = email;

}

}

**package** com.oops.assignment;

**public** **class** Academic **extends** Student{

**private** **int** biology;

**private** **int** physics;

**private** **int** chemistry;

**public** Academic() {

}

**public** Academic(**int** biology, **int** physics, **int** chemistry, String name, **int** rollno, String phoneNo, String email) {

**super**(name, rollno, phoneNo, email);

**this**.biology = biology;

**this**.physics = physics;

**this**.chemistry = chemistry;

}

**public** **int** getBiology() {

**return** biology;

}

**public** **void** setBiology(**int** biology) {

**this**.biology = biology;

}

**public** **int** getPhysics() {

**return** physics;

}

**public** **void** setPhysics(**int** physics) {

**this**.physics = physics;

}

**public** **int** getChemistry() {

**return** chemistry;

}

**public** **void** setChemistry(**int** chemistry) {

**this**.chemistry = chemistry;

}

}

**package** com.oops.assignment;

**public** **class** Test {

**public** **static** **void** main(String[] args) {

Academic ac = **new** Academic(60, 58, 71, "Anil", 21, "3333333333", "xqt@gmail.com");

System.***out***.println("Student Name : " + ac.getName());

System.***out***.println("Student Roll No : " + ac.getRollno());

System.***out***.println("Student Phone No: " + ac.getPhoneno());

System.***out***.println("Student Email : " + ac.getEmail());

System.***out***.println("-----------Marks------------");

System.***out***.println("Biology : " + ac.getBiology());

System.***out***.println("Chemistry: " + ac.getChemistry());

System.***out***.println("Physics : " + ac.getPhysics());

}

}

**Question2**

**package** com.oops.assignment;

**public** **class** Employee {

**private** **int** empno;

**private** String name;

**private** String address;

**private** **float** salary;

**private** String desg;

**private** String dept;

**public** Employee() {

}

**public** Employee(**int** empno, String name, String address, **float** salary, String desg, String dept) {

**this**.empno = empno;

**this**.name = name;

**this**.address = address;

**this**.salary = salary;

**this**.desg = desg;

**this**.dept = dept;

}

**public** **int** getEmpno() {

**return** empno;

}

**public** **void** setEmpno(**int** empno) {

**this**.empno = empno;

}

**public** String getName() {

**return** name;

}

**public** **void** setName(String name) {

**this**.name = name;

}

**public** String getAddress() {

**return** address;

}

**public** **void** setAddress(String address) {

**this**.address = address;

}

**public** **float** getSalary() {

**return** salary;

}

**public** **void** setSalary(**float** salary) {

**this**.salary = salary;

}

**public** String getDesg() {

**return** desg;

}

**public** **void** setDesg(String desg) {

**this**.desg = desg;

}

**public** String getDept() {

**return** dept;

}

**public** **void** setDept(String dept) {

**this**.dept = dept;

}

}

**package** com.oops.assignment;

**import** java.util.Scanner;

**public** **class** Test {

**public** **static** **void** main(String[] args) {

Scanner k = **new** Scanner(System.***in***);

System.***out***.println("Enter Number");

**int** no = k.nextInt();

k.nextLine();

System.***out***.println("Enter Name");

String name = k.nextLine();

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

String add = k.nextLine();

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

**float** sal = k.nextFloat();

k.nextLine();

System.***out***.println("Enter Designation");

String dsg = k.nextLine();

System.***out***.println("Enter Department");

String dept = k.nextLine();

Employee e = **new** Employee(no, name, add, sal, dsg, dept);

System.***out***.println("Emp No: " + e.getEmpno());

System.***out***.println("Emp Name: " + e.getName());

System.***out***.println("Emp Address: " + e.getAddress());

System.***out***.println("Emp Salary: " + e.getSalary());

System.***out***.println("Emp Designation: " + e.getDesg());

System.***out***.println("Emp Department: " + e.getDept());

}

}

**Assignment 2**

**Question 1**

**package** com.oops.assignment;

**public** **class** Student {

**private** String name;

**private** **int** rollno;

**private** String phoneno;

**private** String email;

**private** Academic ac;

**public** Student() {

}

**public** Student(String name, **int** rollno, String phoneno, String email, Academic ac) {

**this**.name = name;

**this**.rollno = rollno;

**this**.phoneno = phoneno;

**this**.email = email;

**this**.ac = ac;

}

**public** String getName() {

**return** name;

}

**public** **void** setName(String name) {

**this**.name = name;

}

**public** **int** getRollno() {

**return** rollno;

}

**public** **void** setRollno(**int** rollno) {

**this**.rollno = rollno;

}

**public** String getPhoneno() {

**return** phoneno;

}

**public** **void** setPhoneno(String phoneno) {

**this**.phoneno = phoneno;

}

**public** String getEmail() {

**return** email;

}

**public** **void** setEmail(String email) {

**this**.email = email;

}

**public** Academic getAc() {

**return** ac;

}

**public** **void** setAc(Academic ac) {

**this**.ac = ac;

}

}

**package** com.oops.assignment;

**public** **class** Academic{

**private** **int** biology;

**private** **int** physics;

**private** **int** chemistry;

**public** Academic() {

}

**public** Academic(**int** biology, **int** physics, **int** chemistry) {

**this**.biology = biology;

**this**.physics = physics;

**this**.chemistry = chemistry;

}

**public** **int** getBiology() {

**return** biology;

}

**public** **void** setBiology(**int** biology) {

**this**.biology = biology;

}

**public** **int** getPhysics() {

**return** physics;

}

**public** **void** setPhysics(**int** physics) {

**this**.physics = physics;

}

**public** **int** getChemistry() {

**return** chemistry;

}

**public** **void** setChemistry(**int** chemistry) {

**this**.chemistry = chemistry;

}

}

**package** com.oops.assignment;

**import** java.util.Scanner;

**public** **class** Test {

**public** **static** **void** main(String[] args) {

Academic ac = **new** Academic(60, 58, 71);

Student s = **new** Student("Anil", 21, "333333333", "xat@gmail.com", ac);

System.***out***.println("Student Name : " + s.getName());

System.***out***.println("Student Roll No : " + s.getRollno());

System.***out***.println("Student Phone No: " + s.getPhoneno());

System.***out***.println("Student Email : " + s.getEmail());

System.***out***.println("-----------Marks------------");

System.***out***.println("Biology : " + s.getAc().getBiology());

System.***out***.println("Chemistry: " + s.getAc().getChemistry());

System.***out***.println("Physics : " + s.getAc().getPhysics());

}

}

**Question2**

**package** com.oops.assignment;

**public** **class** Employee {

**private** **int** empno;

**private** String name;

**private** String address;

**private** **float** salary;

**private** String desg;

**private** String dept;

**public** Employee() {

}

**public** Employee(**int** empno, String name, String address, **float** salary, String desg, String dept) {

**this**.empno = empno;

**this**.name = name;

**this**.address = address;

**this**.salary = salary;

**this**.desg = desg;

**this**.dept = dept;

}

**public** **int** getEmpno() {

**return** empno;

}

**public** **void** setEmpno(**int** empno) {

**this**.empno = empno;

}

**public** String getName() {

**return** name;

}

**public** **void** setName(String name) {

**this**.name = name;

}

**public** String getAddress() {

**return** address;

}

**public** **void** setAddress(String address) {

**this**.address = address;

}

**public** **float** getSalary() {

**return** salary;

}

**public** **void** setSalary(**float** salary) {

**this**.salary = salary;

}

**public** String getDesg() {

**return** desg;

}

**public** **void** setDesg(String desg) {

**this**.desg = desg;

}

**public** String getDept() {

**return** dept;

}

**public** **void** setDept(String dept) {

**this**.dept = dept;

}

}

**package** com.oops.assignment;

**import** java.util.Scanner;

**public** **class** Test {

**public** **static** **void** main(String[] args) {

Scanner k = **new** Scanner(System.***in***);

System.***out***.println("Enter Number");

**int** no = k.nextInt();

k.nextLine();

System.***out***.println("Enter Name");

String name = k.nextLine();

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

String add = k.nextLine();

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

**float** sal = k.nextFloat();

k.nextLine();

System.***out***.println("Enter Designation");

String dsg = k.nextLine();

System.***out***.println("Enter Department");

String dept = k.nextLine();

Employee e = **new** Employee(no, name, add, sal, dsg, dept);

System.***out***.println("Emp No: " + e.getEmpno());

System.***out***.println("Emp Name: " + e.getName());

System.***out***.println("Emp Address: " + e.getAddress());

System.***out***.println("Emp Salary: " + e.getSalary());

System.***out***.println("Emp Designation: " + e.getDesg());

System.***out***.println("Emp Department: " + e.getDept());

}

}

**Assignment – 3**

package com.oops.assignment;

public class Bank {

private int accNo;

private String name;

private float bal;

private String phoneNo;

public Bank() {

}

public Bank(int accNo, String name, float bal, String phoneNo) {

this.accNo = accNo;

this.name = name;

this.bal = bal;

this.phoneNo = phoneNo;

}

public boolean withdraw(float amt) {

if(this.bal >= amt) {

this.bal = this.bal - amt;

return true;

}

else {

return false;

}

}

public void deposit(float amt) {

this.bal = this.bal + amt;

}

public int getAccNo() {

return accNo;

}

public void setAccNo(int accNo) {

this.accNo = accNo;

}

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

public float getBal() {

return bal;

}

public void setBal(float bal) {

this.bal = bal;

}

public String getPhoneNo() {

return phoneNo;

}

public void setPhoneNo(String phoneNo) {

this.phoneNo = phoneNo;

}

}

package com.oops.assignment;

import java.util.Scanner;

public class Test {

static Bank accounts[] = new Bank[5];

public static void main(String[] args) {

accounts[0] = new Bank(501, "Anil", 60000, "7777777777");

accounts[1] = new Bank(502, "Anil", 160000, "8888888888");

accounts[2] = new Bank(504, "Anil", 590000, "7777777778");

accounts[3] = new Bank(506, "Anil", 1000, "7777777771");

accounts[4] = new Bank(508, "Anil", 1500, "7777777772");

Scanner k = new Scanner(System.in);

System.out.println("Enter your account number:");

int accno = k.nextInt();

k.nextLine();

Bank b = search(accno);

if(b != null) {

System.out.println("Press 1 for Deposit, 2 for Withdrawal");

int op = k.nextInt();

if(op == 1) {

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

float amt = k.nextFloat();

b.deposit(amt);

System.out.println("Rs " + amt + "deposited. New Balance" + b.getBal());

}

else if(op == 2) {

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

float amt = k.nextFloat();

boolean done = b.withdraw(amt);

if(done) {

System.out.println("Rs " + amt + "withdrawn. New Balance" + b.getBal());

}

else {

System.out.println("Not Enough Balance");

}

}

else {

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

}

}

else {

}

}

public static Bank search(int accNo) {

for(Bank b : accounts) {

if(b.getAccNo() == accNo)

return b;

}

return null;

}

}