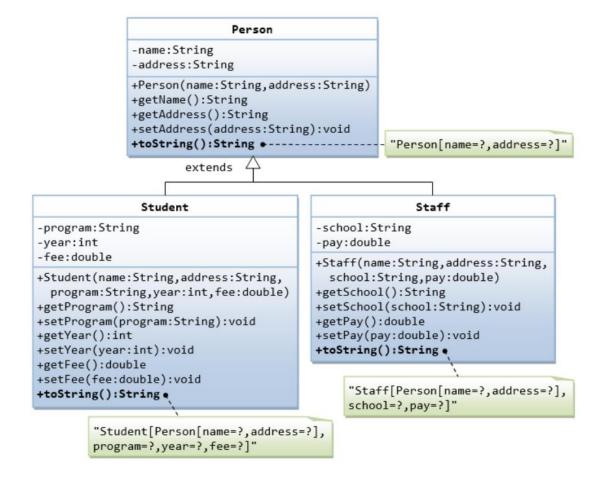
Ex No 3 Inheritance

Date:

Aim:(one aim for all 5 program)

To write a java program for concept of inheritance

3 a.



Algorithm:

Step1: Start

Step2: create class Person

```
Step3: create variables name, address and methods getName(), getAddress(), setName(name),
setAddress(address), tostring() and constructor Person(name,address)
Step4: create class Student inheriting class Person
Step5: create variables program, year, fee and methods getProgram(), setProgram(program),
getFee(),setFee(fee),getYear(),setYear(year) and constructor
Student(name,address,program,year,fee)
Step6: create class Staff inheriting class Person
Step7: create variables salary, school and methods getSchool(), setSchool(school), getSalary(),
setSalary(salary) with constructor Staff(name,address,school,salary)
Step8: In every method return respective values
Step9: For class Staff, Student create object and call the respective methods
Step10:Stop
Program:
package exp3;
public class Sample {
  public static void main(String[] args){
     Student obj=new Student("jash","chennai",2,80000,"cs");
     System.out.println(obj.getAddress());
     System.out.println(obj.getName());
     obj.setAddress("madurai");
     System.out.println(obj.getFee());
     System.out.println(obj.getProgram());
     System.out.println(obj.getyear());
     obj.setFee(60000);
     obj.setYear(3);
     obj.setProgram("phy");
     System.out.println(obj.tostring());
     Staff o2=new Staff("harsh", "bangalore", "kv", 45000);
     System.out.println(o2.getAddress());
     System.out.println(o2.getName());
     System.out.println(o2.getPay());
     System.out.println(o2.getSchool());
     o2.setPay(50000);
    o2.setSchool("tc");
    System.out.println(o2.tostring());
  }
```

```
class Person{
  String name, address;
  Person(String a,String b){
     name=a;
    address=b;
  }
  String getName(){
    return name;
  String getAddress(){
    return address;
  void setAddress(String add){
     address=add;
  String tostring(){
    return "name:"+name+" address:"+address;
  }
}
class Student extends Person{
  int year;
  double fee;
  String program;
  Student(String a,String b,int y,double f,String p){
     super(a,b);
     year=y;
     fee=f;
    program=p;
  String getProgram(){
    return program;
  void setProgram(String a){
     program=a;
  int getyear(){
    return year;
  void setYear(int y){
    year=y;
  double getFee(){
```

```
return fee;
  }
  void setFee(double f){
    fee=f;
  String tostring(){
    return "name:"+name+" address:"+address+" program:"+program+" year:"+year+"
fee:"+fee;
  }
}
class Staff extends Person{
  String school;
  double pay;
  Staff(String a,String b,String c,double d){
     super(a,b);
     school=c;
    pay=d;
  String getSchool(){
    return school;
  void setSchool(String s){
     school=s;
  double getPay(){
    return pay;
  void setPay(double p){
    pay=p;
  String tostring(){
    return "name:"+name+" address:"+address+" school:"+school+"pay:"+pay;
  }
}
Output:
chennai
jash
80000.0
cs
```

2		
name:jash address:madurai program:phy year:3 fee:60000.0		
bangalore		
harsh		
45000.0		
kv		
name:harsh address:bangalore school:tcpay:50000.0		

Observation(20)	
Record(5)	
Total(25)	
Initial	

Result:

Thus, the java programs using inheritance concepts is written, executed and the output is verified