

## Practical 04 -Java Lab – Encapsulation and Inheritance

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### Exercise

01

```
public class Employee {
    private int empid;
    private String empname;
    private String empdesignation;

    public void setid(int eid){
        empid=eid;
    }
    public int getid(){
        return empid;
    }
    public void setname(String ename){
        empname=ename;
    }
    public String getname(){
        return empname;
    }
    public void setdesignation(String ed){
        empdesignation=ed;
    }
    public String getdesignation(){
        return empdesignation;
    }
}

public static void main(String[] args) {
    Employee e1=new Employee();
    e1.setid(1234);
    e1.setname("Bogdan");
    e1.setdesignation("Manager");
    System.out.println("Employee ID :"+e1.getid());
    System.out.println("Employee Name :"+e1.getname());
    System.out.println("Employee Designation :"+e1.getdesignation());
    Employee e2=new Employee();
    e2.setid(456);
    e2.setname("Bird");
    e2.setdesignation(" Senior Manager");
    System.out.println("Employee ID :"+e2.getid());
    System.out.println("Employee Name :"+e2.getname());
    System.out.println("Employee Designation :"+e2.getdesignation());
}
```

	<pre>     } } </pre>
<b><u>Exercise 02</u></b>	Answer for code is 9,6
<b><u>Exercise 03</u></b>	<pre> public class Person {     private String sname;     private int sid;      public void setname(String sn){         sname=sn;     }     public String getname(){         return sname;     }     public void setid(int si){         sid=si;     }     public int getid(){         return sid;     } }  public class Student extends Person {      private String scourse;      public void setcourse(String sc){         scourse=sc;     }     public String getcourse(){         return scourse;     } }  public class Lecturer extends Person {      private String lprogramme; </pre>

	<pre> public void setlprog(String lp){     lprogramme=lp; } public String getlprog(){     return lprogramme; }  }  public class Test {      public static void main(String[] args) {         Student s1=new Student();         s1.setname("Anne");         s1.setid(1234);         s1.setcourse("Maths");         System.out.println("Students Name :"+s1.getname());         System.out.println("Student ID :"+s1.getid());         System.out.println("Student Course :"+s1.getcourse());          Lecturer l=new Lecturer();         l.setname("Mr.Brwon");         l.setid(456);         l.setlprog("Maths");         System.out.println("Lecturer Name :"+l.getname());         System.out.println("Lecturer ID :"+l.getid());         System.out.println("Lecturer program :"+l.getlprog());     } } </pre>
<b><u>Exercise</u></b> <b><u>04</u></b>	Answer-True,True,True