Inheritance – Assignments-All

Assignment-1

Define a class named Animal with a method sound(). Define another class Bird that extends Animal and overrides the sound() method to print "Bird is singing" and another method fly(). Create an instance of Bird and call both methods.

```
class Animal {

   void sound() {

      System.out.println("Animal is making a sound");

   }

}


class Bird extends Animal {

   @Override

   void sound() {

      System.out.println("Bird is singing");

   }


   void fly() {

      System.out.println("Bird is flying");

   }

}

public class TestInheritance {

   public static void main(String[] args) {

      Bird b = new Bird();

      b.sound();

      b.fly();

   }

}
```

Assignment-2

2) Create a class Person with variables name and age, and a subclass Employee with employeeId and salary. Include appropriate constructors and methods to display details of an employee.

```
class Person {

    String name;

    int age;


    Person(String name, int age) {

        this.name = name;

        this.age = age;

    }


    void display() {

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

        System.out.println("Age: " + age);

    }
}


class Employee extends Person {

    int employeeId;

    double salary;


    Employee(String name, int age, int employeeId, double salary) {

        super(name, age);

        this.employeeId = employeeId;

        this.salary = salary;

    }
```

```java
    @Override

    void display() {

        super.display();

        System.out.println("Employee ID: " + employeeId);

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

    }

}


public class TestPersonEmployee {

    public static void main(String[] args) {

        Employee emp = new Employee("John Doe", 30, 101, 50000);

        emp.display();

    }

}
```