TASK : ( 23/01/2025 ) :

1. Write a Java program to create a class called Animal with a method called makeSound(). Create a subclass called Cat that overrides the makeSound() method to bark.

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package tasktask;

class Animal1 {

public void makeSound() {

System.out.println("Animal makes a sound");

}

}

class Cat extends Animal1 {

@Override

public void makeSound() {

System.out.println("Cat barks");

}

}

public class Animal {

public static void main(String[] args)

Animal1 myCat = new Cat();

myCat.makeSound();

}

}

2. Write a Java program to create a class called Vehicle with a method called drive(). Create a subclass called Car that overrides the drive() method to print "Repairing a car".

\*\*\*

package tasktask;

class Vehicle {

public void drive() {

System.out.println("Driving the vehicle");

}

}

class Car extends Vehicle {

@Override

public void drive() {

System.out.println("Repairing a car");

}

}

public class Animal {

public static void main(String[] args) {

Vehicle myCar = new Car();

myCar.drive();

}

}

3. Write a Java program to create a class called Shape with a method called getArea(). Create a subclass called Rectangle that overrides the getArea() method to calculate the area of a rectangle.

\*\*\*

package tasktask;

class Shape {

public double getArea() {

return 0;

}

}

class Rectangle extends Shape {

private double length;

private double width;

public Rectangle(double length, double width) {

this.length = length;

this.width = width;

}

@Override

public double getArea() {

return length \* width;

}

}

public class Animal {

public static void main(String[] args) {

Rectangle myRectangle = new Rectangle(9, 6);

System.out.println("The area of the rectangle is: " + myRectangle.getArea());

}

}

4.Write a Java program to create a class called Employee with methods called work() and getSalary(). Create a subclass called HRManager that overrides the work() method and adds a new method called addEmployee().

\*\*\*

package tasktask;

class Employee {

public void work() {

System.out.println("Employee is working.");

}

public double getSalary() {

return 98000;

}

}

class HRManager extends Employee {

@Override

public void work() {

System.out.println("HR Manager is managing HR operations.");

}

public void addEmployee(String employeeName) {

System.out.println(employeeName + " has been added to the company.");

}

}

public class Animal {

public static void main(String[] args) {

HRManager hrManager = new HRManager();

hrManager.work();

hrManager.addEmployee("Karthik");

System.out.println("HR Manager's salary: " + hrManager.getSalary());

}

}