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1. Classes and Objects
Code:
class Carif
  String colors;
  int speed;
   void drive(){
      System. out. println (" Can is driving ....");
public class Main {
   public static void main (string[] angs) {
      Can mycan = new Can();
        my Can. colon = "Red";
        my con. speed = 100;
        my can. drive ();
2. Access Modifiers
Class Person{
    private String name;
    public void setName (String name) {
         name = new Name,
```

```
public String getName(){
                           public thatic
        neturn name;
public class Mains
  public static void main (string[] angs) {
      Person p = new Person ();
     P. set Name ("Alice");
                        4. Encapsulation
     System.out.printdn(p.get Name ());
      3 (manners 3 range) & 150638 Pier
3. Inheritance and Protected Access
class Animal ?
 protected String type = "Animal",
void display.(){
      System, out println (" This is an animal.").
    public static void main (state glis angs);
class Dog extends Animal {
   void bank () 9
    System. out. printiln (type + " says Wood!");
```

public class Main & public static void main (String[] args) { Dog a d = new Dog(). d. display (); d. bank(); 3. (in the most prime blow state sildua 4. Encapsulation class Bonk Account { private double balance. public vois deposit (double amount) & if (amount >0) blance + = amount; public double getBalance() { neturn balance; public + class Main & public static void main (String[] angs) } BankAccount acc = NNEW BankAccount(); acc. deposit (500). System. out. printen (acc. get Balancel),

5. Abstruct Classes

abstract void makeSound();
void sleep() {

System-out println ("Sleeping...");

3

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class Dog extends Animal?

Void makeSound() {

System.out.println ("Bank Bank"),

3

3 public class Main &

public static void main (string [] angs) {

Dog d= new Dog ();

d. make Sound ();

ask disleep();

3

```
S. Abstract Classes
6, Intenface
interface Animal ?
   void sound(); ) brances done bien to and in
class Cat implements Animal ?
    public void sound() {
      System. out. println("Meow"),
 public elass Main &
  public static void main (String[] angs) }
       Cat c = new Cat ();
       c. sound();
R. Multiple Inheritance using Intenface
intenface Flyable {
    void fly ();
intenface Swimmable?
  void swime),
```

Class Duck implement Flyable, Swimmables public void fly () ? System. out. println(" Duck is flying ..."), publice vois swim() ? Systemout, pointln (" Duck is swimming -.- "). public class Mains public static void main (String[] angs) {

Duck 2= new Duck (); a. fly (); J. swim (),.