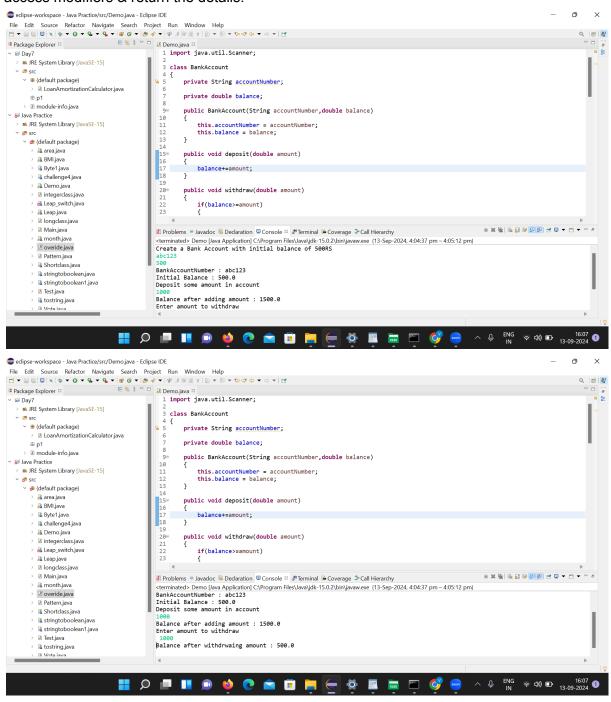
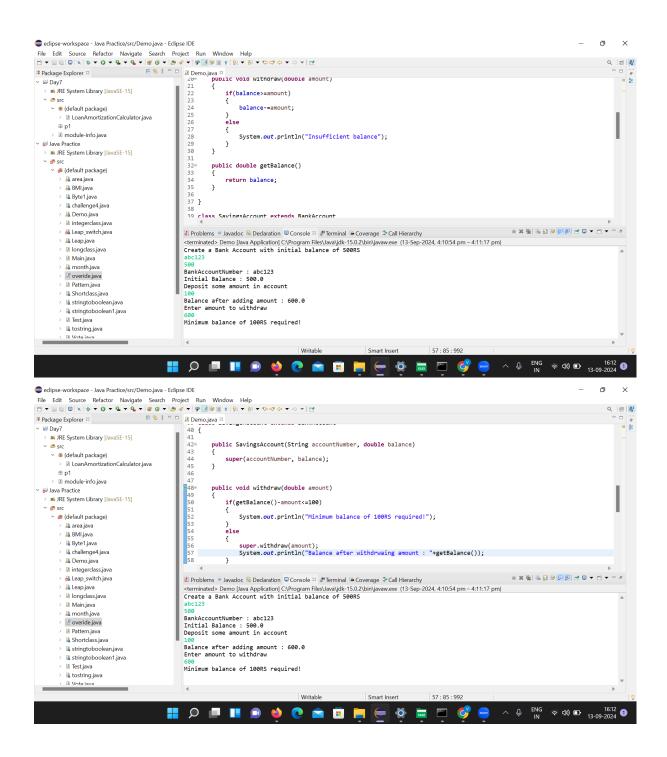
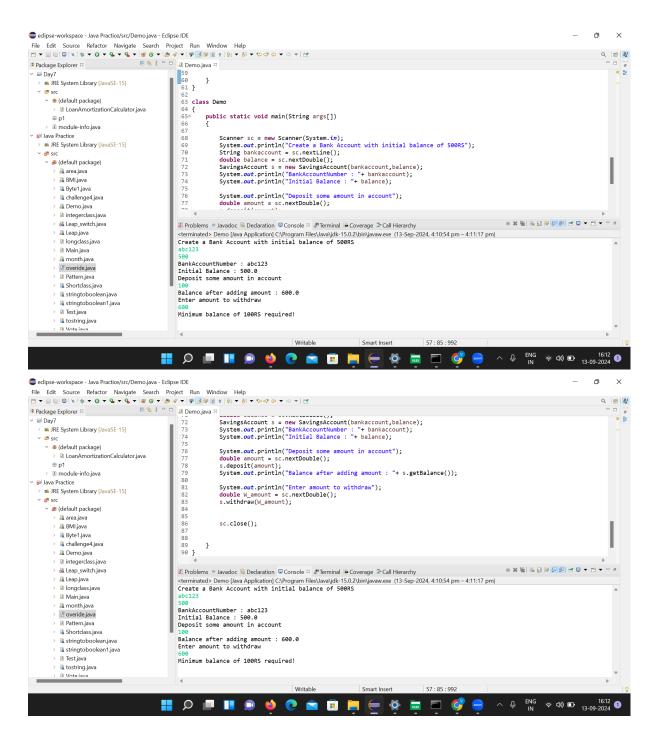
## CDAC Mumbai PG-DAC August 24

## Assignment No- 5

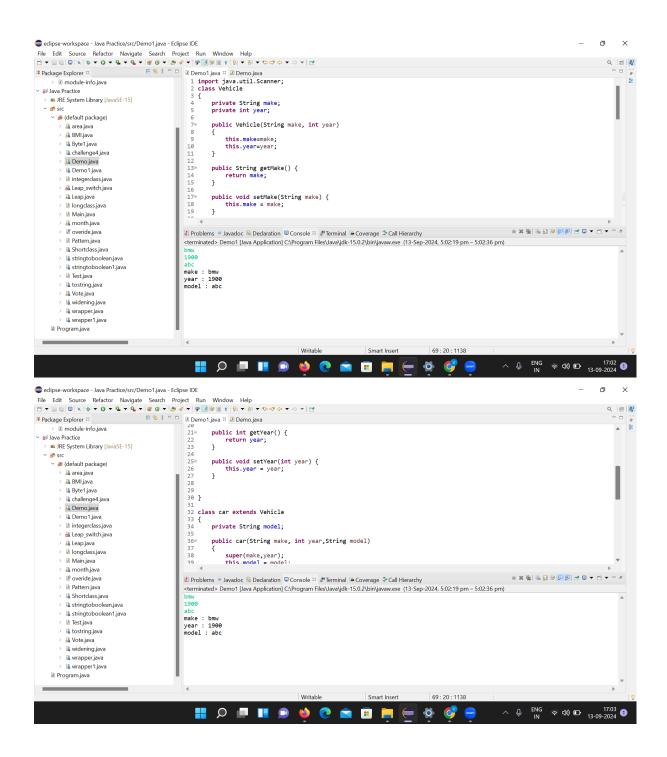
Create a base class BankAccount with methods like deposit() and withdraw(). Derive a class SavingsAccount that overrides the withdraw() method to impose a limit on the withdrawal amount. Write a program that demonstrates the use of overridden methods and proper access modifiers & return the details.

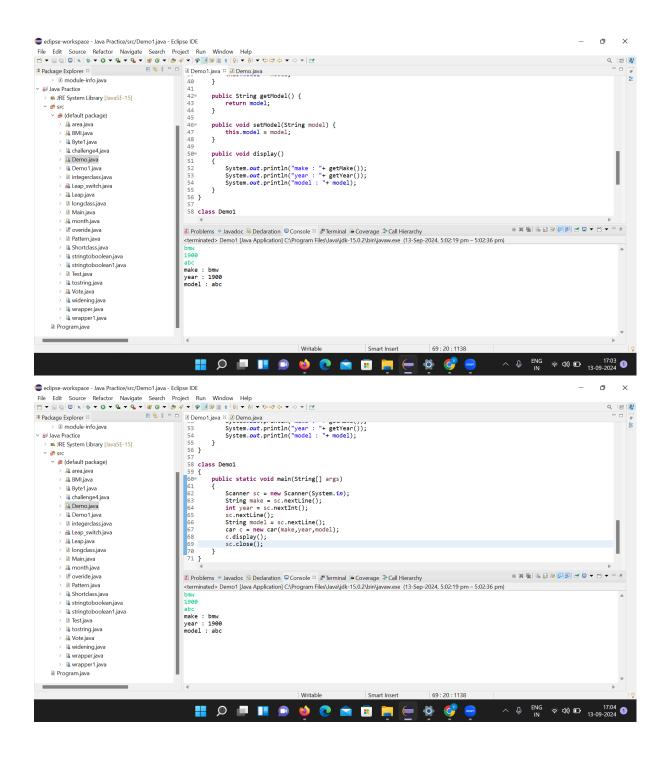




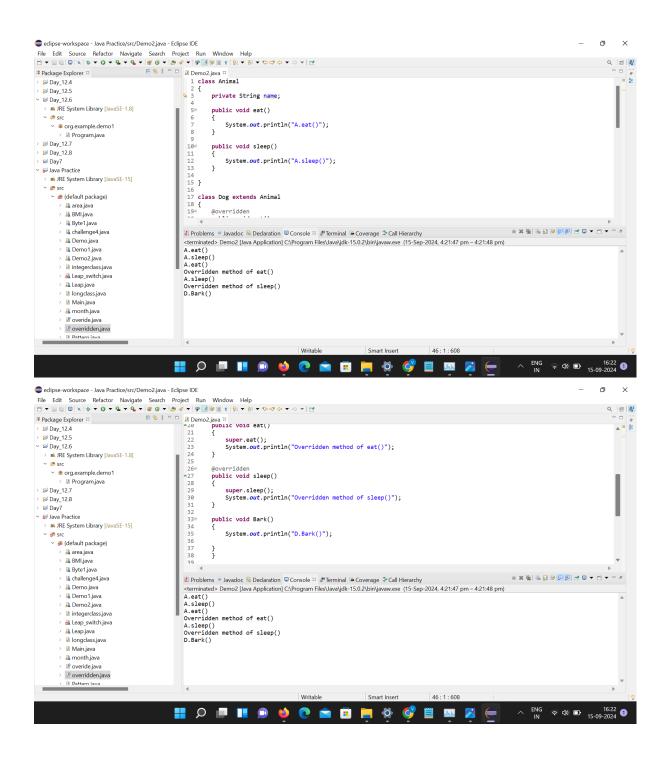


Create a base class Vehicle with attributes like make and year. Provide a constructor in Vehicle to initialize these attributes. Derive a class Car that has an additional attribute model and write a constructor that initializes make, year, and model. Write a program to create a Car object and display its details.





Create a base class Animal with attributes like name, and methods like eat() and sleep(). Create a subclass Dog that inherits from Animal and has an additional method bark(). Write a program to demonstrate the use of inheritance by creating objects of Animal and Dog and calling their methods.



```
eclipse-workspace - Java Practice/src/Demo2.java - Eclipse IDE
                                                                                                                                                                                                                        Q 🔡 🐉
 > 3 Day_12.5
41 class Demo2
                                                                   public static void main(String[] args)

→ 

⊕ org.example.demo1

   > Program.java

Day_12.7
                                                                        A.eat(); A.sleep(); // A.sleep(); // The method Bark() is undefined for the type Animal D.eat();
    □ Day_12.8 □ Day7
   → M JRE System Library [JavaSE-15]
                                                                   D.sleep();
D.Bark();

→ 

# (default package)

         > 🊇 area.java
> 🚇 BMI.java
         > 

Byte1.iava
          > 🛚 challenge4.java

₽ Problems @ Javadoc □ Declaration □ Console □ Problems □ Coverage □ Call Hierarchy

                                                        ## Problems ** Javadoc ** Declaration ** Console ** Firminal ** Coverage ** Call Hierarchy ** cheminated > Demo2 Java Application | C.\Program Files\Java\Jdk-15.0.2\bin\Javaw.exe (15-Sep-2024, 4:21:47 pm - 4:21:48 pm) A. eat()
A. sleep()
A. sleep()
Overridden method of eat()
A. sleep()
Overridden method of sleep()
D. Bark()
         > 🚇 Demo.java
         > @ Demo1.iava
         integerclass.java
         > <u>A</u> Leap_switch.java
> <u>A</u> Leap.java

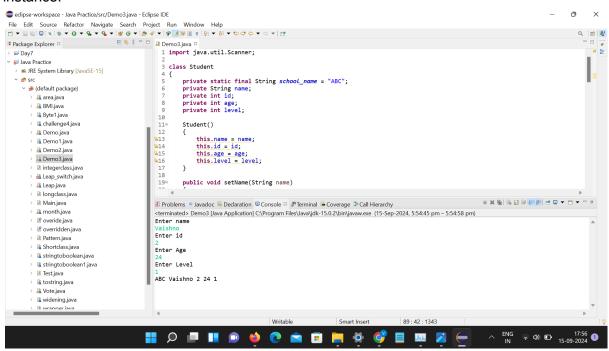
    Iongclass.java

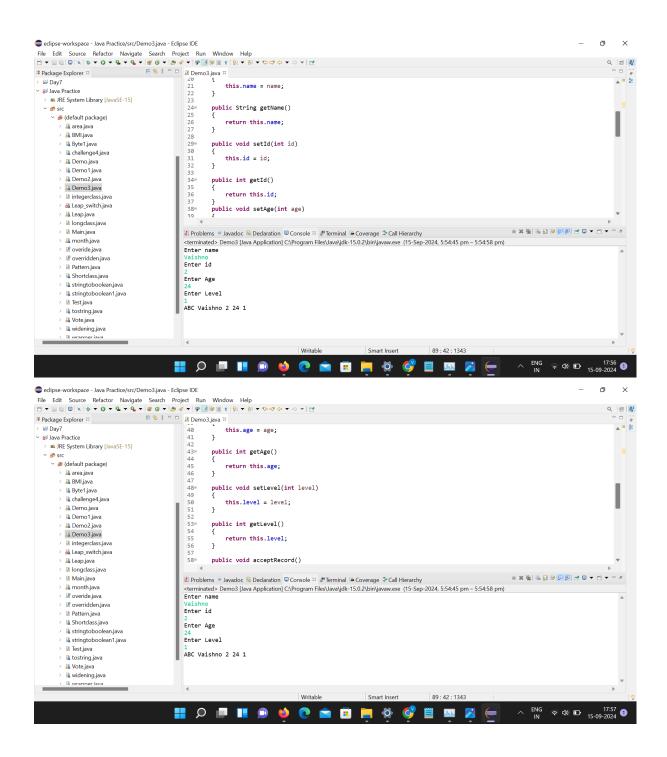
          ☑ Main.java☑ month.java
           If overide,iava

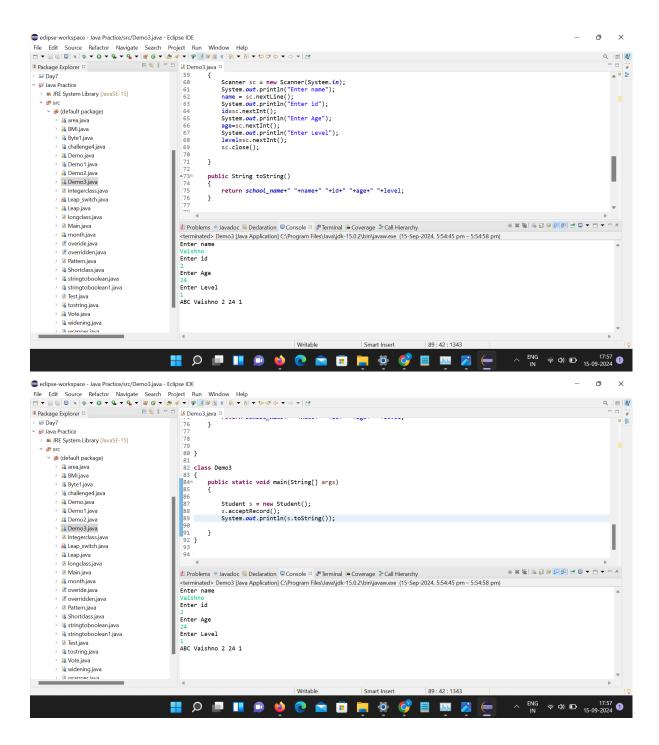
☑ overridden.java

                                                                                                                   Smart Insert 46 : 1 : 608
                                                                                                     Writable
```

Build a class Student which contains details about the Student and compile and run its instance.







Write a Java program to create a base class Vehicle with methods startEngine() and stopEngine(). Create two subclasses Car and Motorcycle. Override the startEngine() and stopEngine() methods in each subclass to start and stop the engines differently.

