

Southern University Bangladesh

Department of Computer Science and Engineering

Faculty of Science and Engineering



Object Oriented Programming Lab

Lab Final Exam

Course code : CSE 0613-108

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1	Program 03: Write a Java program to create a class called "Dog" with a name and breed attribute. Create two instances of the "Dog" class, set their attributes using the constructor and modify the attributes using the setter methods and print the updated values.	
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Program 03: Write a Java program to create a class called "Dog" with a name and breed attribute. Create two instances of the "Dog" class, set their attributes using the constructor and modify the attributes using the setter methods and print the updated values.

Code:

```
public class Dog {  
    private String name;  
    private String breed;  
  
    public Dog(String name, String breed) {  
        this.name = name;  
        this.breed = breed;  
    }  
  
    public void setName(String name) {  
        this.name = name;  
    }  
    public void setBreed(String breed) {  
        this.breed = breed;  
    }  
    public String getName() {  
        return this.name;  
    }  
    public String getBreed() {  
        return this.breed;  
    }  
}
```

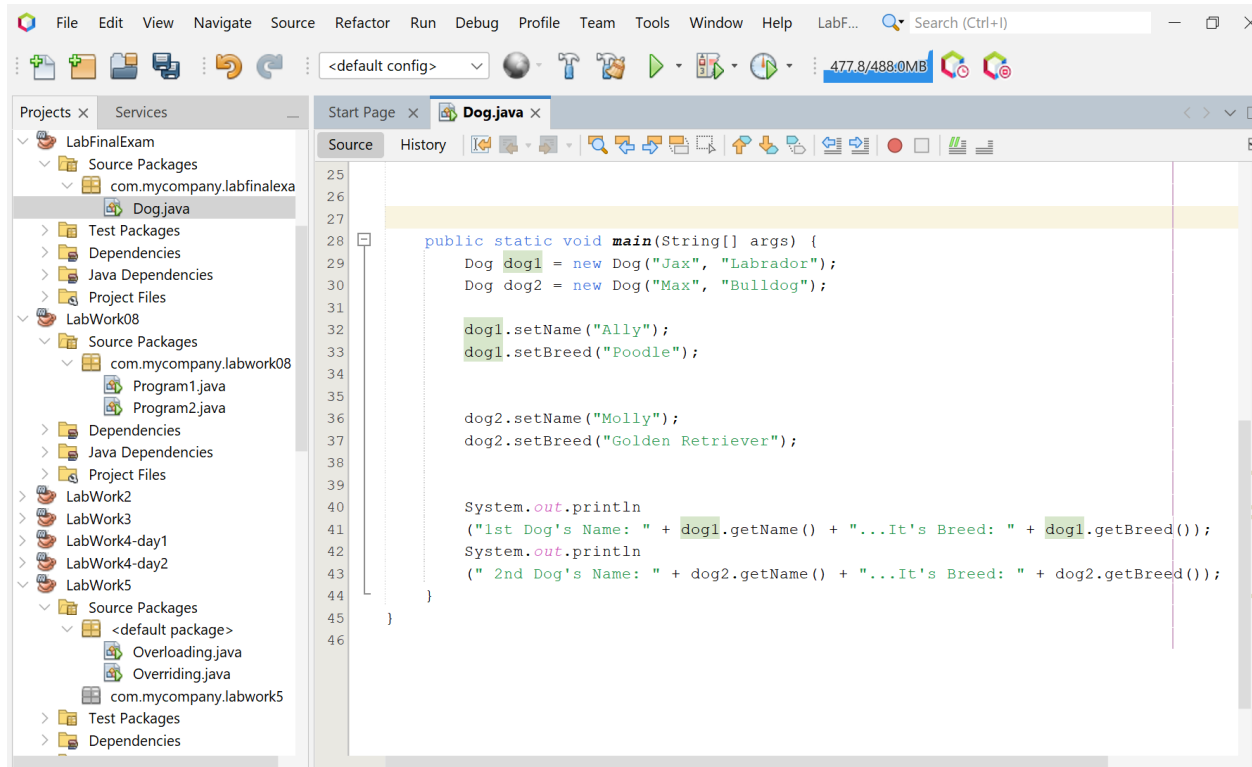
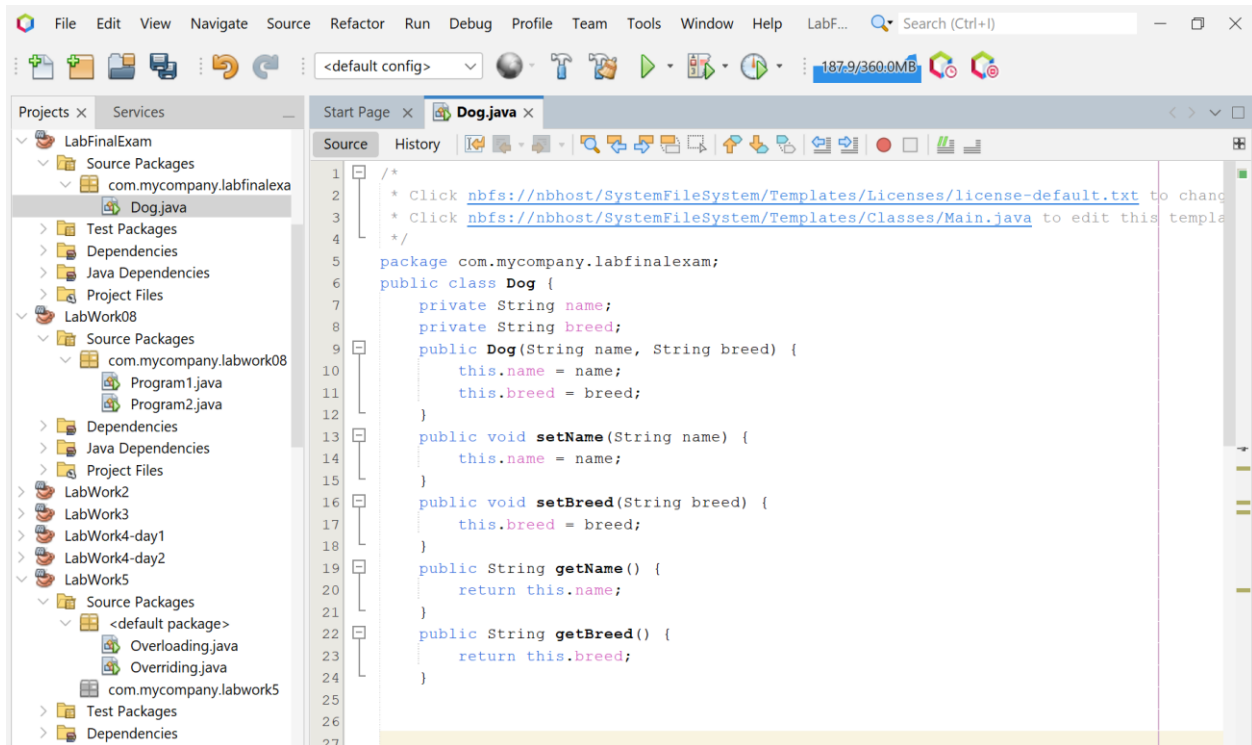
```
public static void main(String[] args) {  
  
    Dog dog1 = new Dog("Jax", "Labrador");  
    Dog dog2 = new Dog("Max", "Bulldog");  
  
    dog1.setName("Ally");  
    dog1.setBreed("Poodle");  
  
    dog2.setName("Molly");  
    dog2.setBreed("Golden Retriever");  
  
    System.out.println  
    ("1st Dog's Name: " + dog1.getName() + "...It's Breed: " + dog1.getBreed());  
    System.out.println  
    (" 2nd Dog's Name: " + dog2.getName() + "...It's Breed: " + dog2.getBreed());  
}  
}
```

Input/ Expected Output:

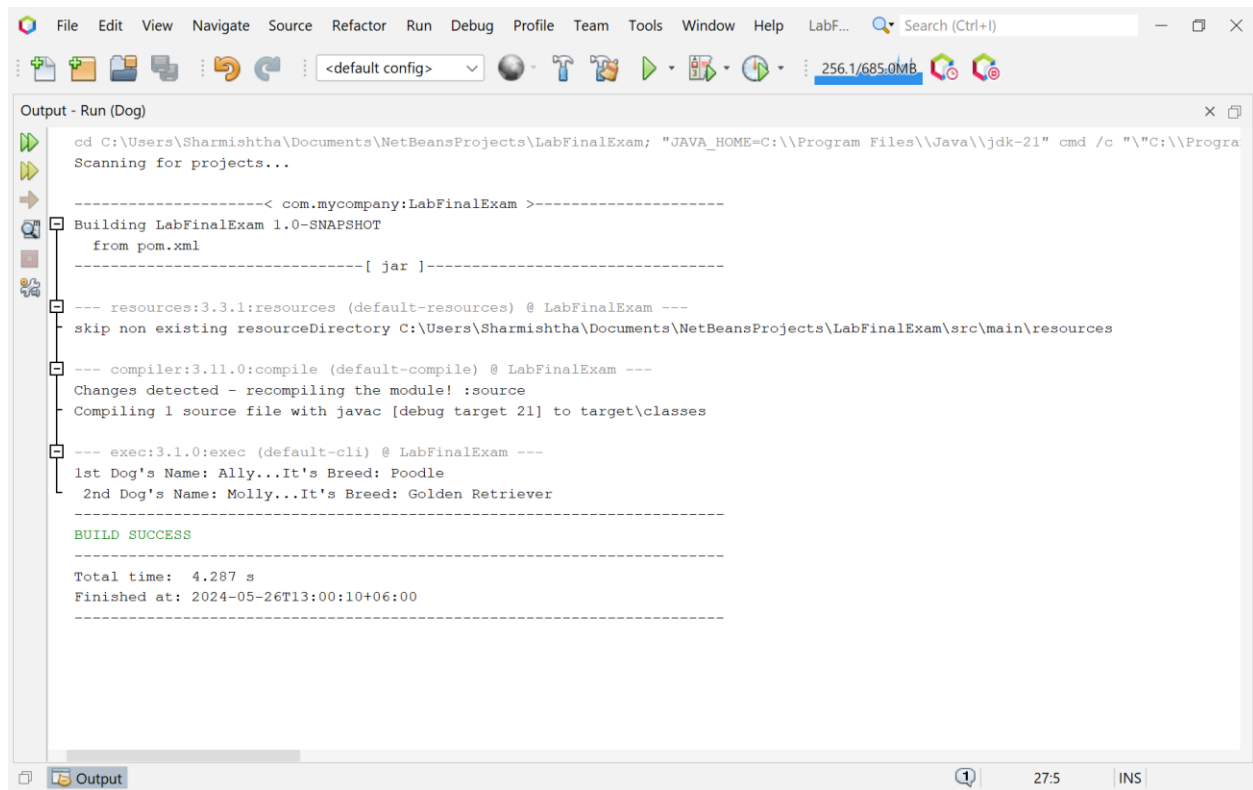
1st Dog's Name: Ally...It's Breed: Poodle

2nd Dog's Name: Molly...It's Breed: Golden Retriever

Screenshot of code edition window:



Screenshot of Output screen/Run screen window:



The screenshot shows the NetBeans IDE interface with the 'Output - Run (Dog)' window open. The window displays the output of a Maven build and execution. The build process includes scanning for projects, building the application from the pom.xml, and executing the application. The execution output shows two lines of text: '1st Dog's Name: Ally...It's Breed: Poodle' and '2nd Dog's Name: Molly...It's Breed: Golden Retriever'. The build is successful, and the total time is 4.287 s. The finished time is 2024-05-26T13:00:10+06:00.

```
cd C:\Users\Sharmishtha\Documents\NetBeansProjects\LabFinalExam; "JAVA_HOME=C:\\Program Files\\Java\\jdk-21" cmd /c "%C:\\Progra
Scanning for projects...

-----< com.mycompany:LabFinalExam >-----
Building LabFinalExam 1.0-SNAPSHOT
  from pom.xml
-----[ jar ]-----

--- resources:3.3.1:resources (default-resources) @ LabFinalExam ---
- skip non existing resourceDirectory C:\Users\Sharmishtha\Documents\NetBeansProjects\LabFinalExam\src\main\resources

--- compiler:3.11.0:compile (default-compile) @ LabFinalExam ---
Changes detected - recompiling the module! :source
Compiling 1 source file with javac [debug target 21] to target\classes

--- exec:3.1.0:exec (default-cli) @ LabFinalExam ---
1st Dog's Name: Ally...It's Breed: Poodle
2nd Dog's Name: Molly...It's Breed: Golden Retriever

BUILD SUCCESS

Total time: 4.287 s
Finished at: 2024-05-26T13:00:10+06:00
```