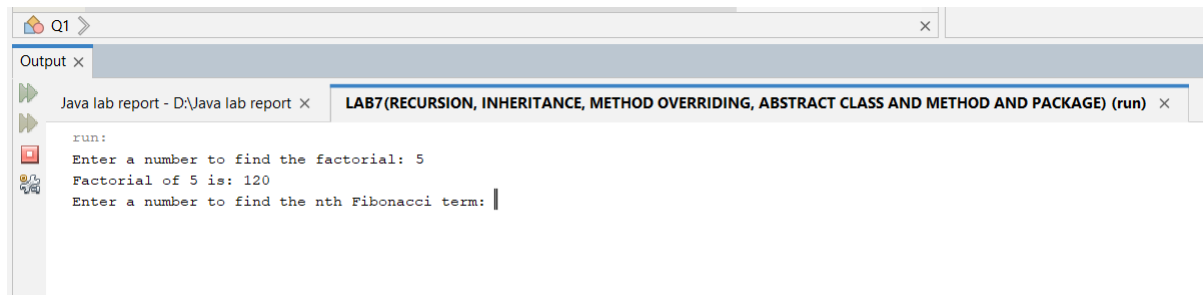


Lab7

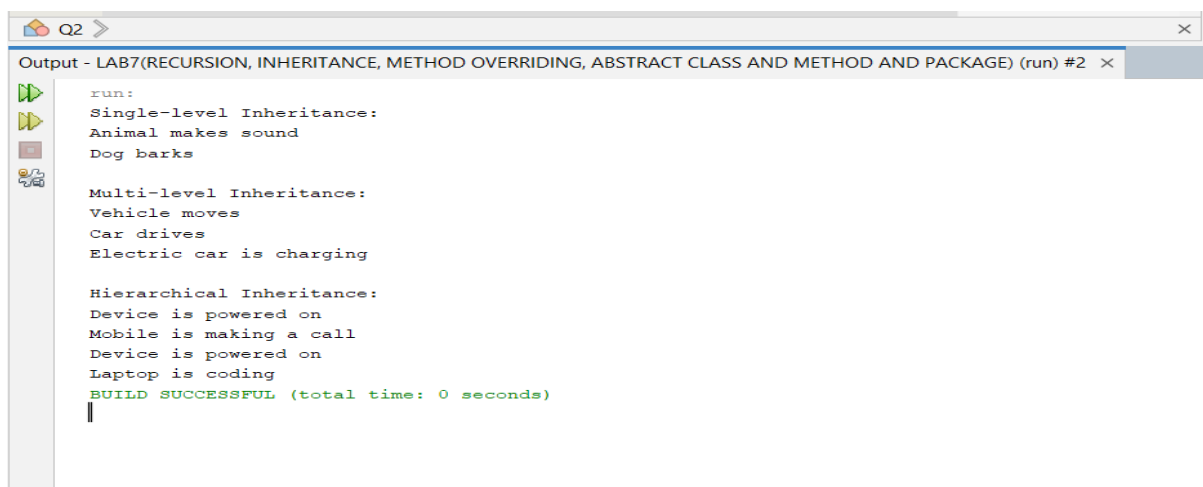
Question1.



The screenshot shows an IDE window titled 'Q1' with a tab for 'LAB7(RECURSION, INHERITANCE, METHOD OVERRIDING, ABSTRACT CLASS AND METHOD AND PACKAGE) (run)'. The output area displays the following text:

```
run:
Enter a number to find the factorial: 5
Factorial of 5 is: 120
Enter a number to find the nth Fibonacci term: |
```

Question2.



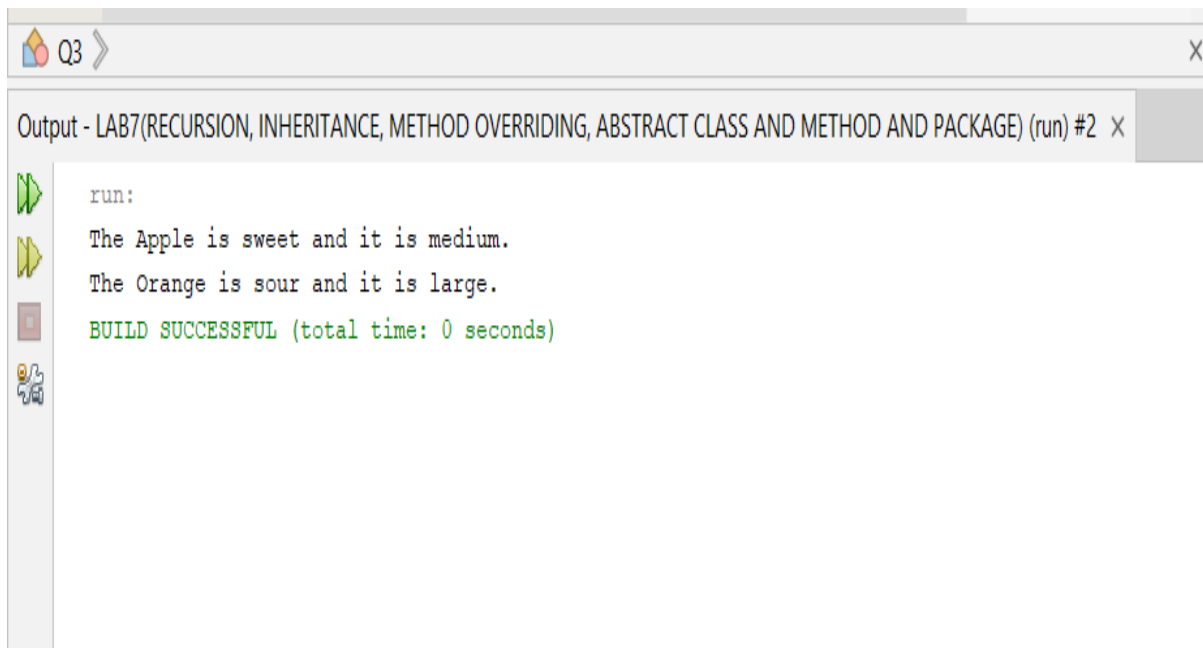
The screenshot shows an IDE window titled 'Q2' with a tab for 'LAB7(RECURSION, INHERITANCE, METHOD OVERRIDING, ABSTRACT CLASS AND METHOD AND PACKAGE) (run) #2'. The output area displays the following text:

```
run:
Single-level Inheritance:
Animal makes sound
Dog barks

Multi-level Inheritance:
Vehicle moves
Car drives
Electric car is charging

Hierarchical Inheritance:
Device is powered on
Mobile is making a call
Device is powered on
Laptop is coding
BUILD SUCCESSFUL (total time: 0 seconds)
|
```

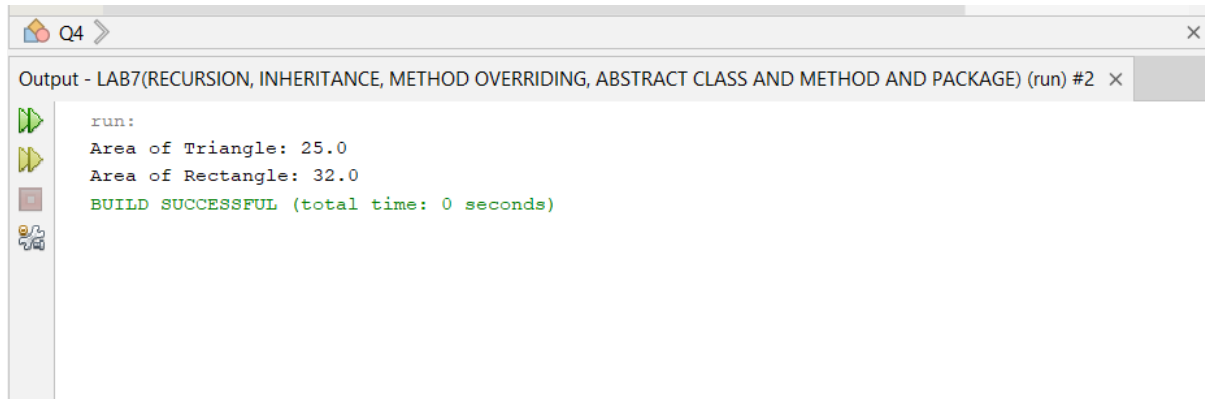
Question3



The screenshot shows an IDE window titled 'Q3' with a tab for 'LAB7(RECURSION, INHERITANCE, METHOD OVERRIDING, ABSTRACT CLASS AND METHOD AND PACKAGE) (run) #2'. The output area displays the following text:

```
run:
The Apple is sweet and it is medium.
The Orange is sour and it is large.
BUILD SUCCESSFUL (total time: 0 seconds)
```

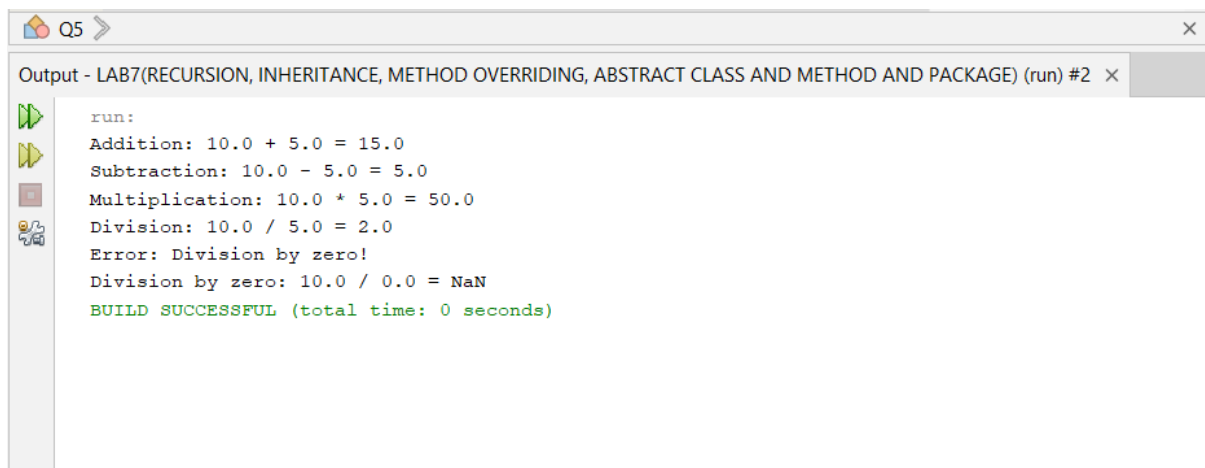
Question4.



The screenshot shows an IDE window titled 'Q4' with a close button. Below the title bar is a tab labeled 'Output - LAB7(RECURSION, INHERITANCE, METHOD OVERRIDING, ABSTRACT CLASS AND METHOD AND PACKAGE) (run) #2'. The output area contains the following text:

```
run:
Area of Triangle: 25.0
Area of Rectangle: 32.0
BUILD SUCCESSFUL (total time: 0 seconds)
```

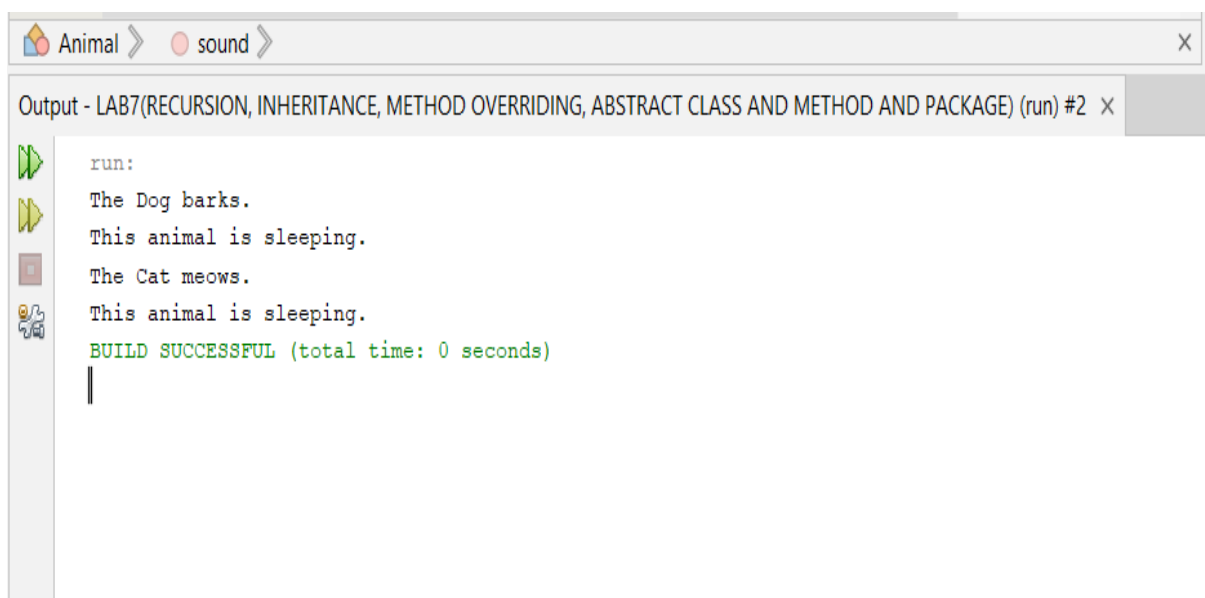
Question5.



The screenshot shows an IDE window titled 'Q5' with a close button. Below the title bar is a tab labeled 'Output - LAB7(RECURSION, INHERITANCE, METHOD OVERRIDING, ABSTRACT CLASS AND METHOD AND PACKAGE) (run) #2'. The output area contains the following text:

```
run:
Addition: 10.0 + 5.0 = 15.0
Subtraction: 10.0 - 5.0 = 5.0
Multiplication: 10.0 * 5.0 = 50.0
Division: 10.0 / 5.0 = 2.0
Error: Division by zero!
Division by zero: 10.0 / 0.0 = NaN
BUILD SUCCESSFUL (total time: 0 seconds)
```

Question6.







The screenshot shows an IDE window with two tabs: 'Animal' and 'sound'. Below the tabs is a tab labeled 'Output - LAB7(RECURSION, INHERITANCE, METHOD OVERRIDING, ABSTRACT CLASS AND METHOD AND PACKAGE) (run) #2'. The output area contains the following text:

```
run:
The Dog barks.
This animal is sleeping.
The Cat meows.
This animal is sleeping.
BUILD SUCCESSFUL (total time: 0 seconds)
```

Question7

Output - LAB7(RECURSION, INHERITANCE, METHOD OVERRIDING, ABSTRACT CLASS AND METHOD AND PACKAGE) (run) ×

```
run:
Employee Details:
ID:13   NAME:Bimal       Address:Balkot  Salary:400000.0
BUILD SUCCESSFUL (total time: 0 seconds)
```