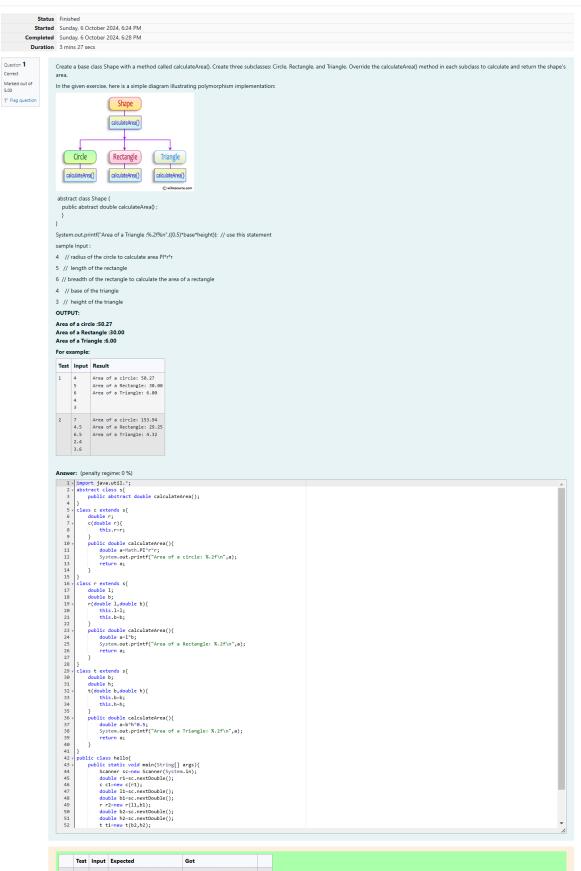
CS23333-Object Oriented Programming Using Java-2023





	Test	Input	Expected	Got	
~	1	4 5 6 4 3		Area of a Rectangle: 30.00	~
•	2	7 4.5 6.5 2.4 3.6	Area of a circle: 153.94 Area of a Rectangle: 29.25 Area of a Triangle: 4.32		~

Passed all tests! 🗸

Question 2 Correct Marked out of 5.00 ₹ Flag question

1. Final Variable:

- Once a variable is declared final, its value cannot be changed after it is initialized.
- It must be initialized when it is declared or in the constructor if it's not initialized at declaration.
- It can be used to define constants

final int MAX_SPEED = 120; // Constant value, cannot be changed

2. Final Method:

- A method declared final cannot be overridden by subclasses.
 It is used to prevent modification of the method's behavior in derived classes.

public final void display() { System.out.println("This is a final method.");

3. Final Class:

- A class declared as final cannot be subclassed (i.e., no other class can inherit from it).
- It is used to prevent a class from being extended and modified.
- public final class Vehicle { // class code

Given a Java Program that contains the bug in it, your task is to clear the bug to the output.

you should delete any piece of code.

For example:

Reset answer

Test Result 1 The maximum speed is: 120 km/h
This is a subclass of FinalExample.

Answer: (penalty regime: 0 %)

```
1 - class FinalExample {
        // Final variable int maxSpeed = 120;
        6 7 7 8 9 10 } 11 12 v cl 13 14 15 16 v 17 18 19 } 20 1 v cl 22 v 23 24 25 26 27 28 29 }
        }
     class SubClass extends FinalExample {
        // You can create new methods here
public void showDetails() {
    System.out.println("This is a subclass of FinalExample.");
}
     SubClass subObj = new SubClass();
subObj.showDetails();
```

	Test	Expected	Got	
~	1	The maximum speed is: 120 km/h This is a subclass of FinalExample.	The maximum speed is: 120 km/h This is a subclass of FinalExample.	~

Correct Marked out of 5.00 P Flag question

As a logic building learner you are given the task to extract the string which has vowel as the first and last characters from the given array of Strings.

Step1: Scan through the array of Strings, extract the Strings with first and last characters as vowels; these strings should be concatenated.

Step2: Convert the concatenated string to lowercase and return it.

If none of the strings in the array has first and last character as vowel, then return no matches found

input1: an integer representing the number of elements in the array.

input2: String array.

Example 1:

input1: 3

input2: {"oreo", "sirish", "apple"}

output: oreoapple

Example 2:

input1: 2

input2: {"Mango", "banana"}

output: no matches found

None of the strings has first and last character as vowel.

Hence the output is no matches found.

Example 3:

input1: 3

input2: {"Ate", "Ace", "Girl"} output: ateace

For example:

Input	Result
3 oreo sirish apple	oreoapple
2 Mango banana	no matches found
3 Ate Ace Girl	ateace

Answer: (penalty regime: 0 %)

	Input	Expected	Got	
~	3 oreo sirish apple	oreoapple	oreoapple	~
~	2 Mango banana	no matches found	no matches found	
~	3 Ate Ace Girl	ateace	ateace	~

Passed all tests! ✓

Finish review