## South Louisiana Community College ASDV 2420, Advanced Programming Language I Programming Examination 2 on 2019/3/12

Create a project called Exam2LastName where LastName is your last name. Upload the zip and html for each problem outside of the zip. The examination MUST be uploaded before 11:59am. IT WILL CLOSE at 11:59am.

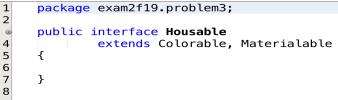


Problem 3 (2 points)

1. Create an **interface** named <u>Materialable</u> which has one parameterless method named <u>material</u> that returns <u>void</u>.

2. Create another **interface** named <u>Colorable</u> which has one parameterless method named <u>color</u> that returns <u>void</u>.

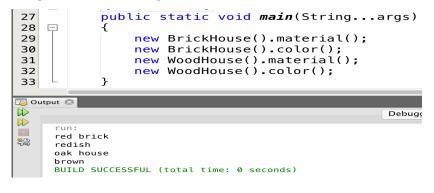
3. Create a third **interface** named <u>Housable</u> which inherits all methods from interfaces <u>Materialable</u> and <u>Colorable</u>.



4. Create a class named <u>BrickHouse</u> which inherits all methods from interface <u>Housable</u>.

5. Create a **class** named *Wood<u>House</u>* which inherits all methods from interface <u>Housable</u>.

6. Add appropriate code in the methods of classes <u>BrickHouse</u> and <u>WoodHouse</u> to produce the same output shown below using the <u>main</u> method given below.



## Problem 4 (1 point) Given any string <u>s1</u> and any string <u>s2</u>, of any size, implement method *isRotation* shown to the right. the method *isRotation* returns true if s2 is a rotation of s1. (eq given s1 = ABCD and s2 = CDAB, returns true, ABCD and s2 = DABC, returns true, given s1 = ABCD, and s2 = ACBD, returns false given s1 = "", and s2 = "A", returns false) Test it with the exact main shown below: 1 package exam2f19.problem3; 2 public class Problem4 3 { public static boolean isRotation(String s1, String s2) 4 5 + {...25 lines } 30 public static boolean *isRotationZac*(String s1, String s2) {...44 lines + 74 public static void main(String... args ) 75 — { System.out.println( isRotation( "ABCDABCD", "BCDABCDA")); 76 77 System.out.println( isRotation ( "ABCD", "ACBD") ); System.out.println( isRotation ( 'ABCD', 'ACBD )); System.out.println( isRotation ( "ABCD", "ABC") ); System.out.println( isRotation ( "ABCD", "BCDA") ); System.out.println( isRotation ( "ABCD", "ABCC") ); System.out.println( isRotation ( "ABCD", "DABC") ); 78 79 80 81 82 83 } 🔁 Output – exam2F19 (run) 🛛 🛽 $\square$ run: true $\mathbb{D}$ false false 22

true

false true

BUILD SUCCESSFUL (total time: 0 seconds)