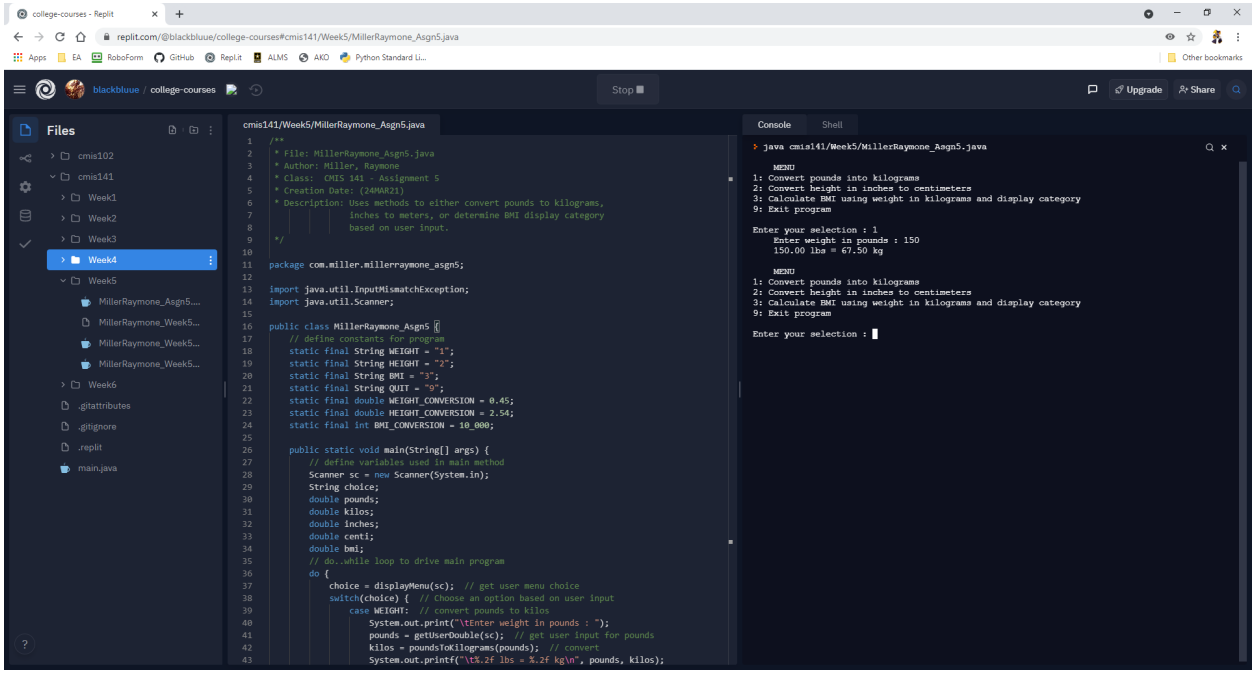
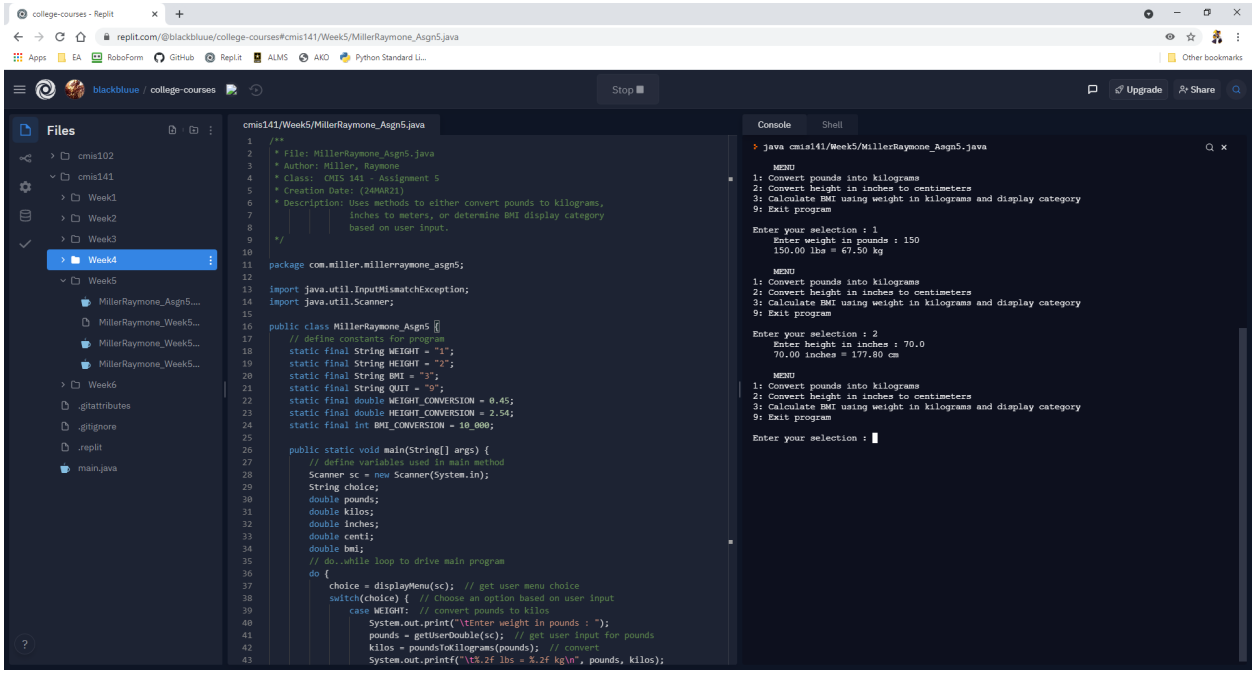
Input	Expected Output	Actual Output	Pass?
Selection=1 weight=150	150.00 lbs = 67.50 kg	`150.00 lbs = 67.50 kg`	Yes
Selection=2 height=70.0	70.00 inches = 177.80 cm	`70.00 inches = 177.80 cm`	Yes
Selection=3 weight=80.6 height=94	BMI=91.22 Category=Obese	`BMI=91.22` `Category=Obese`	Yes
Selection=9	Thank you for using the program. Goodbye!	`Thank you for using the program. Goodbye!`	Yes

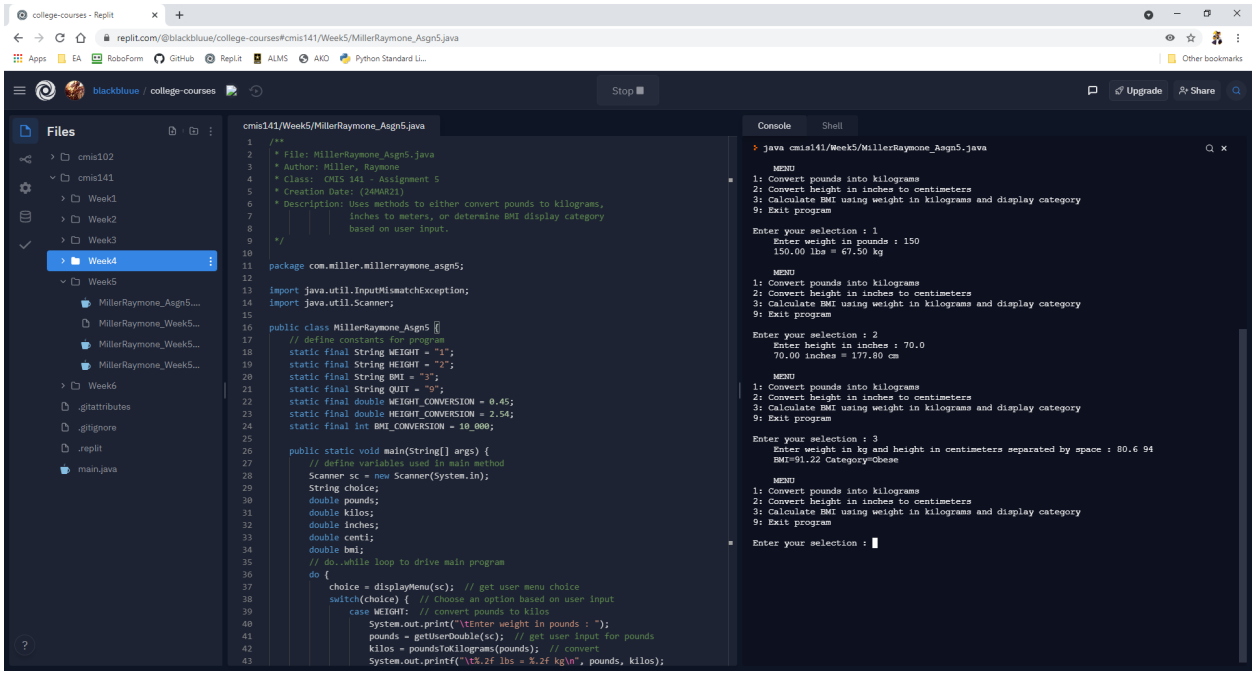
Test Case 1



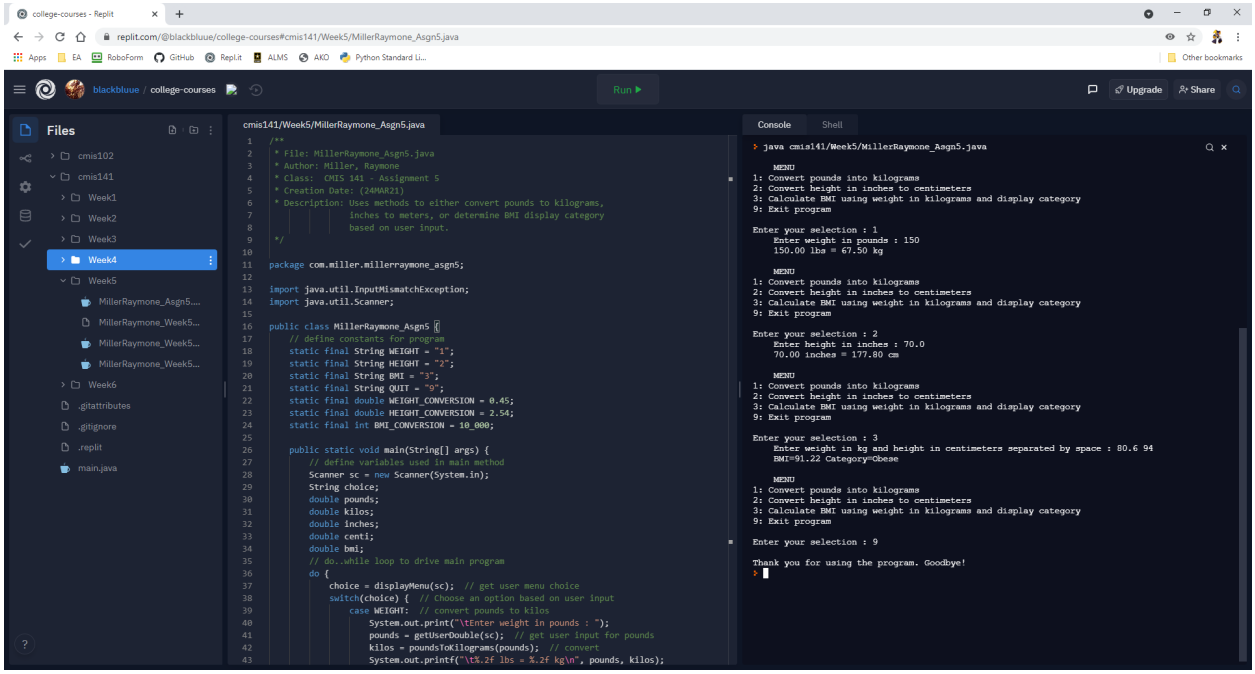
Test Case 2



Test Case 3



Test Case 4




```java
/**
 * File: MillerRaymone_Asgn5.java
 * Author: Miller, Raymone
 * Class:  CMIS 141 - Assignment 5
 * Creation Date: (24MAR21)
 * Description: Uses methods to either convert pounds to kilograms,
                inches to meters, or determine BMI display category
                based on user input.
 */

package com.miller.millerraymone_asgn5;

import java.util.InputMismatchException;
import java.util.Scanner;

public class MillerRaymone_Asgn5 {
    // define constants for program
    static final String WEIGHT = "1";
    static final String HEIGHT = "2";
    static final String BMI = "3";
    static final String QUIT = "9";
    static final double WEIGHT_CONVERSION = 0.45;
    static final double HEIGHT_CONVERSION = 2.54;
    static final int BMI_CONVERSION = 10_000;

    public static void main(String[] args) {
        // define variables used in main method
        Scanner sc = new Scanner(System.in);
        String choice;
        double pounds;
        double kilos;
        double inches;
        double centi;
        double bmi;
        // do..while loop to drive main program
        do {
            choice = displayMenu(sc);  // get user menu choice
            switch(choice) {  // Choose an option based on user input
                case WEIGHT:  // convert pounds to kilos
                    System.out.print("\tEnter weight in pounds : ");
                    pounds = getUserDouble(sc);  // get user input for pounds
                    kilos = poundsToKilograms(pounds);  // convert
                    System.out.printf("\t%.2f lbs = %.2f kg\n", pounds, kilos);
```