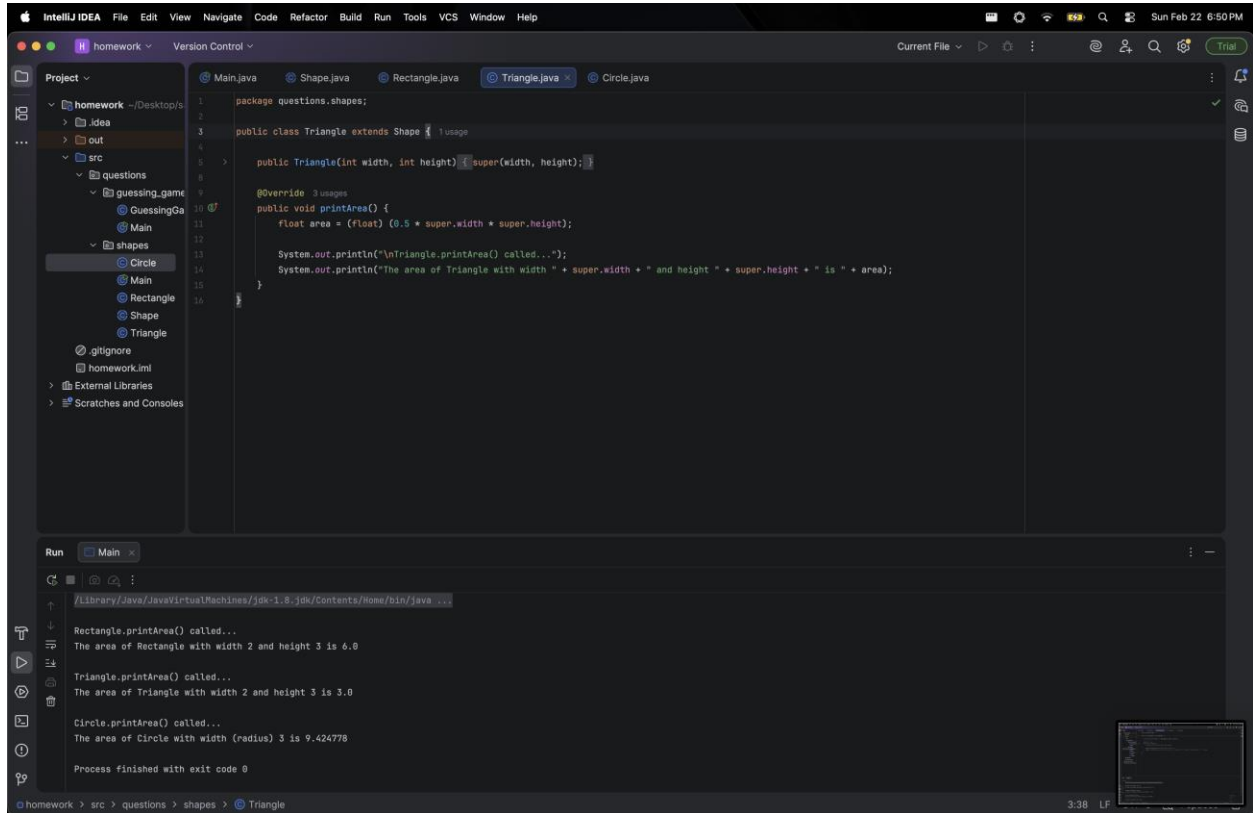
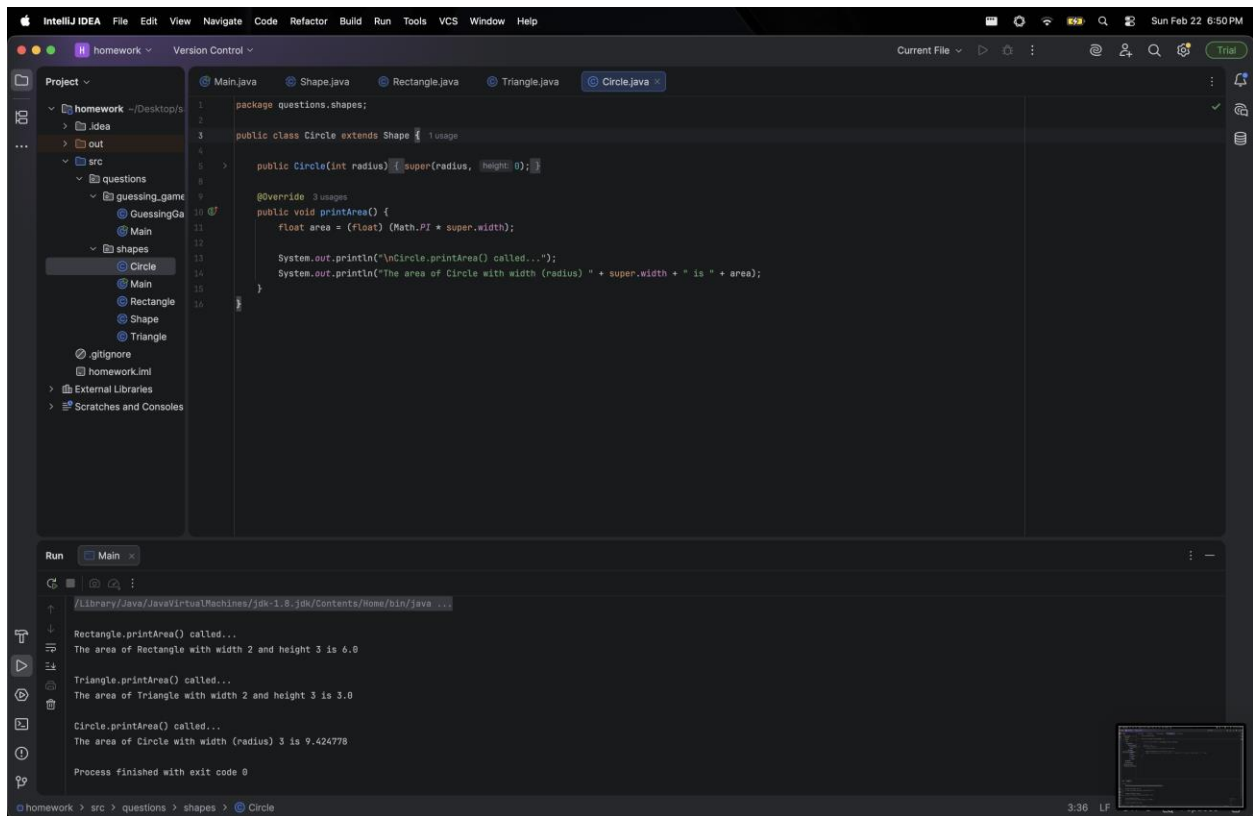
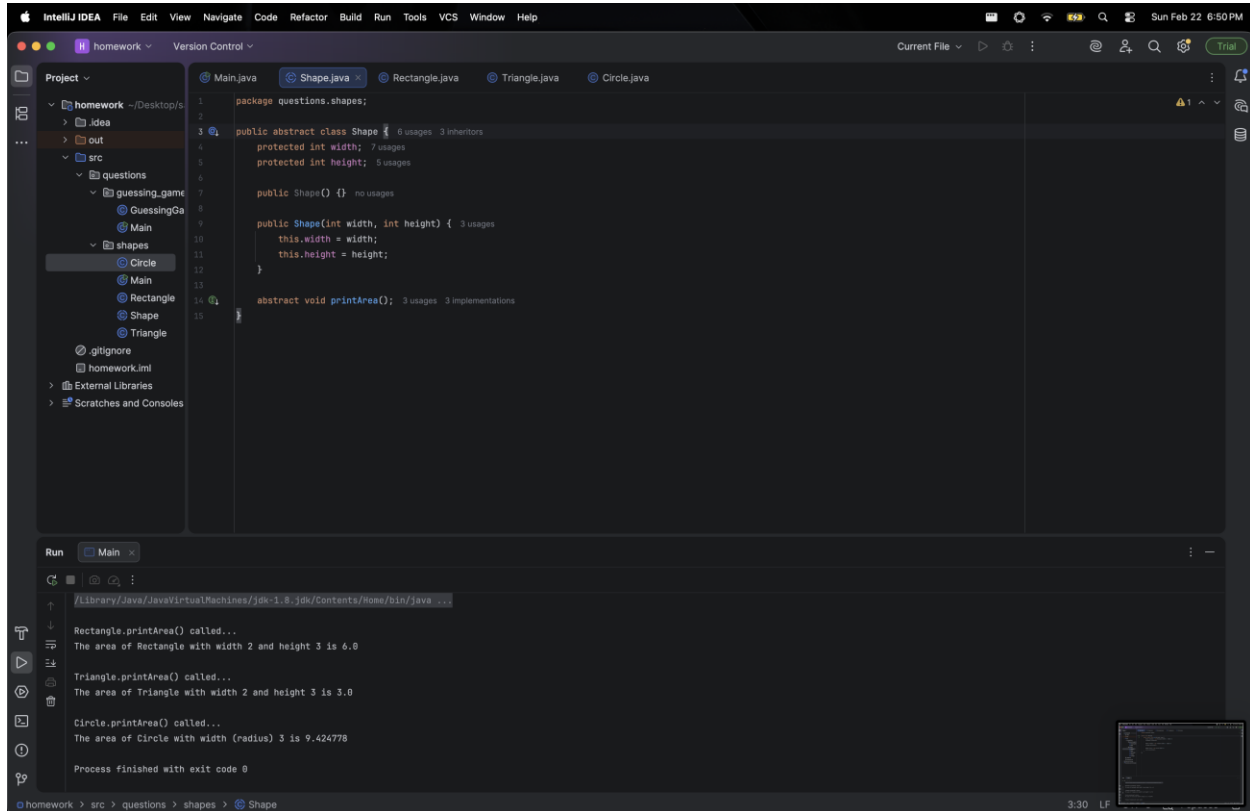
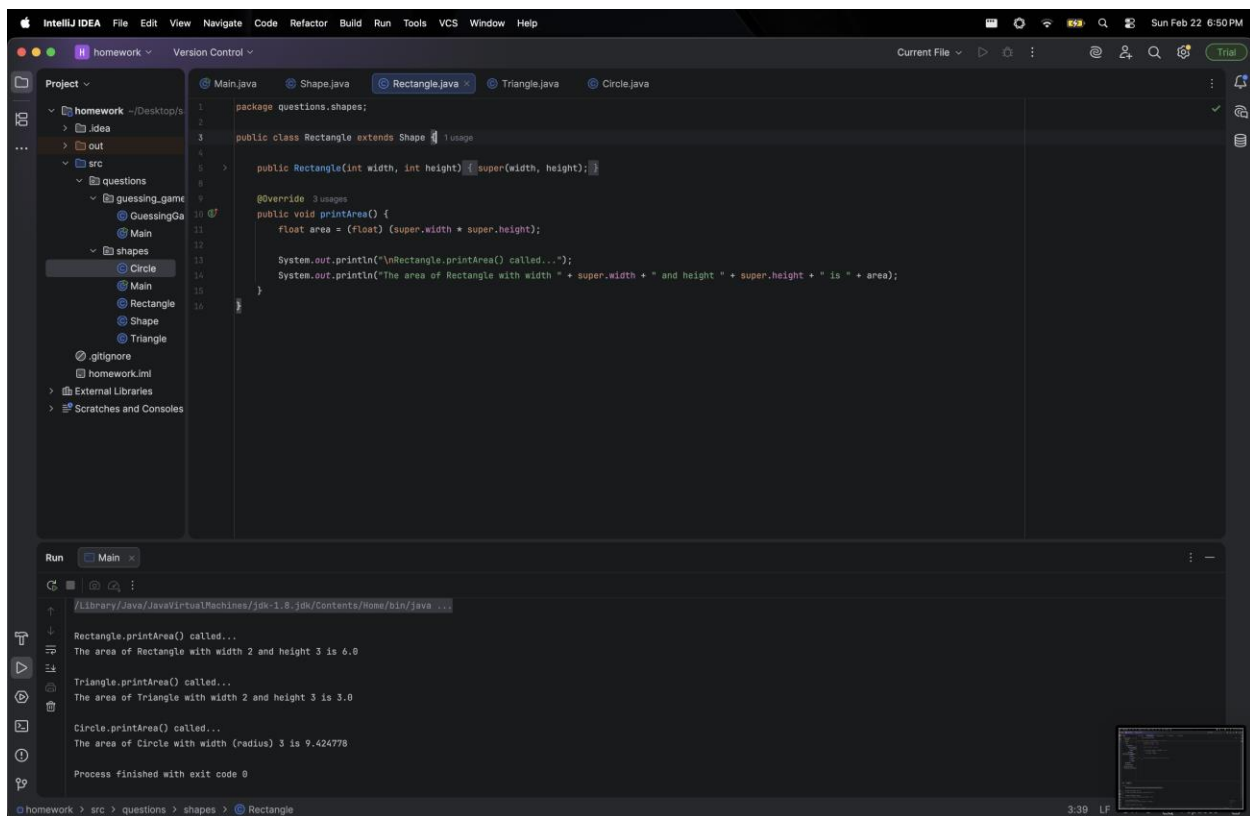
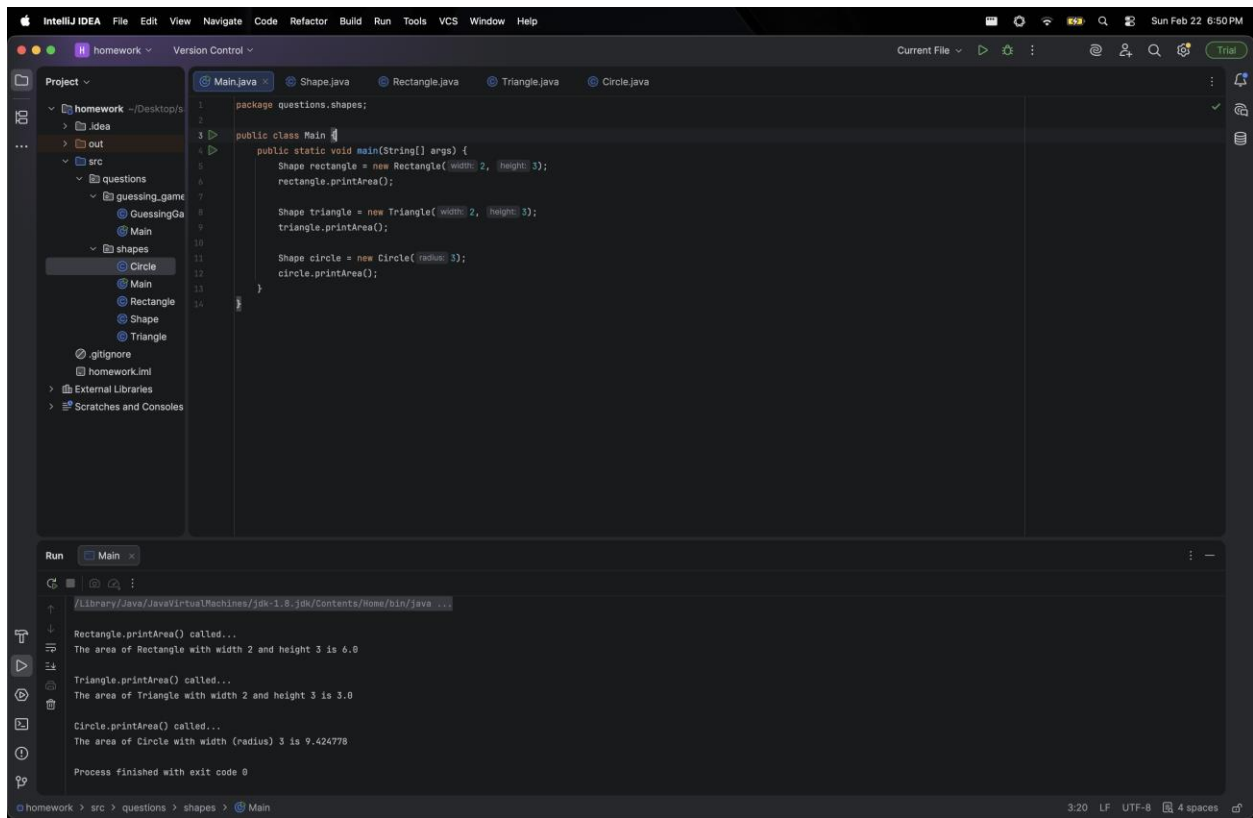


Week 1 – Day 3 Assignment (February 20th, 2026)

Question 1 – Shapes







Question 2 – Guessing Game

The screenshot shows the IntelliJ IDEA IDE interface. At the top, the menu bar includes Apple logo, IntelliJ IDEA, File, Edit, View, Navigate, Code, Refactor, Build, Run, Tools, VCS, Window, and Help. The top toolbar contains icons for running, debugging, and other development actions. The 'Run' button is highlighted in blue. Below the toolbar, the 'Project' view on the left shows the file structure with 'Main.java' selected. The 'Run' tab is active, displaying the output of the program. The output text is as follows:

```

Welcome to the Guessing Game
Enter the maximum number: 100
Enter the number of guesses allowed: 10
Enter your guess, remember it must be between 0 and 100: 50
Too High
Getting Colder
Enter your guess, remember it must be between 0 and 100: 25
Too High
Getting Warmer
Enter your guess, remember it must be between 0 and 100: 13
Too Low
Getting Colder
Enter your guess, remember it must be between 0 and 100: 17
Too Low
Getting Warmer
Enter your guess, remember it must be between 0 and 100: 20
Too Low
Getting Warmer
Enter your guess, remember it must be between 0 and 100: 23
Too High
Getting Warmer
Enter your guess, remember it must be between 0 and 100: 22
Too High
Getting Warmer
Enter your guess, remember it must be between 0 and 100: 21

# of Guesses vs. Max # Guesses: 8 - 10
Congratulations!
The correct answer was 21
Would you like to play again, enter Y for yes, N for no: N

Process finished with exit code 0

```

At the bottom of the IDE, the status bar shows the file path 'homeWORK > src > questions > guessing_game > @ Main', the cursor position '5:20 LF', the encoding 'UTF-8', and the number of spaces '4 spaces'.

The screenshot shows the IntelliJ IDEA IDE with a Java project named 'homework'. The 'Run' tab is active, displaying the output of a Java program. The program is a guessing game that prompts the user for the maximum number (100) and the number of guesses allowed (10). It then asks the user to enter guesses, providing feedback such as 'Too High', 'Too Low', 'Getting Warmer', and 'Getting Colder'. The game ends with 'The correct answer was 45' and asks if the user wants to play again.

```

Welcome to the Guessing Game
Enter the maximum number: 100
Enter the number of guesses allowed: 10
Enter your guess, remember it must be between 0 and 100: 50
Too High
Getting Colder
Enter your guess, remember it must be between 0 and 100: 25
Too Low
Getting Colder
Enter your guess, remember it must be between 0 and 100: 35
Too Low
Getting Warmer
Enter your guess, remember it must be between 0 and 100: 40
Too Low
Getting Warmer
Enter your guess, remember it must be between 0 and 100: 44
Too Low
Getting Warmer
Enter your guess, remember it must be between 0 and 100: 47
Too High
Getting Warmer
The correct answer was 45
Would you like to play again, enter Y for yes, N for no: Y

Welcome to the Guessing Game
Enter the maximum number: 100
Enter the number of guesses allowed: 10
Enter your guess, remember it must be between 0 and 100: 50
Too High
Getting Colder
Enter your guess, remember it must be between 0 and 100: 25
Too High
Getting Warmer
Enter your guess, remember it must be between 0 and 100: 13
Too Low
Getting Colder
Enter your guess, remember it must be between 0 and 100: 17
Too Low
Getting Warmer
Enter your guess, remember it must be between 0 and 100: 20

```

```
1 package questions.guessing_game;
2
3 import java.util.Random;
4
5 public class GuessingGame {
6     /**
7      * An Integer representing the randomly generated number (the number to be guessed).
8      */
9     private int answer;
10    /**
11     * A Random generator object.
12     */
13    private final Random generator;
14    /**
15     * A Boolean field indicating if game is still in progress or not.
16     */
17    private boolean gameOver;
18    /**
19     * An Integer representing the difference between a guess and the answer.
20     */
21    private int differential;
22    /**
23     * The maximum value of the number to guess.
24     */
25    private int max;
26    /**
27     * The maximum number of guesses the user gets. If exceeded, the game is over.
28     */
29    private int maxGuessesAllowed;
30    /**
31     * An Integer that stores the number of guesses taken so far in the game.
32     */
33    private int numGuessesTaken;
34
35    public GuessingGame() {
36
37    }
38
39    public GuessingGame(int max) {
40        setMax(max);
41        this.generator = new Random();
42    }
43
44    public void setAnswer(int answer) { this.answer = answer; }
45
46    public int getAnswer() { return this.answer; }
47
48    public void setGameOver(boolean gameOver) { this.gameOver = gameOver; }
49
50    public boolean getGameOver() { return this.gameOver; }
51}
```

```
1 package questions.guessing_game;
2
3 import java.util.Scanner;
4
5 public class Main {
6     public static void main(String[] args) {
7         while (true) {
8             printMainMenu();
9             int max = promptPlayerForMax();
10            int maxGuesses = promptPlayerForNumberOfGuesses();
11
12            GuessingGame game = new GuessingGame(max);
13            game.newGame(maxGuesses);
14
15            while (!game.getGameOver()) {
16                int guess = getPlayerGuess(max);
17                String res = game.guess(guess);
18                if (res.equals("Congratulations!")) {
19                    game.printVictoryState();
20                }
21                System.out.println(res);
22            }
23
24            System.out.println("The correct answer was " + game.getAnswer());
25
26            String playerOption = promptPlayerToPlayAgain();
27            if (playerOption.equals("Y")) {
28                continue;
29            } else {
30                game.setGameOver(true);
31                break;
32            }
33        }
34    }
35
36    public static void printMainMenu() {
37
38    }
39
40    public static int promptPlayerForMax() {
41
42    }
43
44    public static int promptPlayerForNumberOfGuesses() {
45
46    }
47
48    public static int getPlayerGuess(int max) {
49
50    }
51
52    public static String promptPlayerToPlayAgain() {
53
54    }
55}
```