- 1. Question 1
 - a. Hello
 - b. Hello.java
 - c. Main method is the entry point into the program
 - d. Prints "World!" and moves the cursor to the next line
- 2. Question 2

Possible Class Name	Possible Object Names
Table	blackTable writingTable diningTable
Chair	blueChair computerChair woodenChair
Vegetable	cabbageVegetable carrotVegetable broccoliVegetable
Animal	giraffeAnimal whaleAnimal lionAnimal

```
public class Table{
     private String color;
     private String brand;
     private float price;
     public Table(){}
     public void display() {
         System.out.println("This is a table");
 }
public class Chair{
    private String color;
     private String brand;
     private float price;
     public Chair(){}
     public void display() {
         System.out.println("This is a chair");
public class Animal{
     private String name;
     private String species;
     private int legs;
     public Animal(){}
     public void display() {
         System.out.println("This is an animal");
```

```
public class Vegetable{
    private String name;
     private String color;
     private float weight;
     public Vegetable(){}
     public void display() {
         System.out.println("This is a vegetable");
public class Main{
     public static void main(String [] args) {
         Table blackTable = new Table();
         Chair blueChair = new Chair();
         Vegetable carrotVegetable = new Vegetable();
         Animal animalLion = new Animal();
         blackTable.display();
         blueChair.display();
         carrotVegetable.display();
         animalLion.display();
```

```
3.
     import java.util.Random;
   public class MyFirstAnalysis{
         public int [] generateRandomData(){
             int inputData[] = new int[10];
             Random generateRandom = new Random();
             for (int i = 0; i < 10; i++) {
                 inputData[i] = generateRandom.nextInt(100);
             return inputData;
         public void findMaxMinSumAverage(int [] inputData) {
             int max, min, sum, ave;
             sum = 0;
             ave = 0;
             min = 0;
             max = 0;
             for (int j = 0; j < 10; j++) {
                 if (j == 0){
                     min = inputData[j];
                     max = inputData[j];
                 else{
                     if (inputData[j] < min)
                         min = inputData[j];
                     if (inputData[j] > max)
                         max = inputData[j];
                 sum = sum + inputData[j];
             ave = sum / 10;
             System.out.println("Minimum value is "+min);
             System.out.println("Maximum value is "+max);
             System.out.println("The sum is "+sum);
             System.out.println("The average is "+ave);
         public static void main(String[] args) {
             MyFirstAnalysis firstAnalysis = new MyFirstAnalysis();
             for (int value : firstAnalysis.generateRandomData()){
                 System.out.println("Values : "+value);
4.
```

```
5.
    public class Temperature{
           public double convertTemperaturetoCelsius(double fahrenheit) {
                double celsius = 0.0:
                celsius = (5.0/9)*(fahrenheit-32);
                return celsius;
6.
 import java.awt.FlowLayout;
 import java.awt.event.ActionEvent;
 import java.awt.event.ActionListener;
 import javax.swing.JButton;
 import javax.swing.JFrame;
 import javax.swing.JLabel;
 import javax.swing.JTextField;
public class GuiTemperature{
     private JTextField txt input;
     private JTextField txt_output;
     public GuiTemperature(){
        init();
     public void init(){
        JFrame frame = new JFrame();
         frame.setSize(650,70);
         frame.setLayout(new FlowLayout());
             JLabel lbl input = new JLabel("Temperature in Fahrenheit : ");
         frame.add(lbl input);
             txt_input = new JTextField(15);
         frame.add(txt_input);
             JButton btn_process = new JButton("Convert");
             btn process.addActionListener(new ActionListener(){
                 @Override
                 public void actionPerformed(ActionEvent e) {
                    String input = txt_input.getText();
                    Double obj_input = new Double(input);
                    double double_input = obj_input.doubleValue();
                    Temperature temperature = new Temperature();
                    double double_temperature = temperature.convertTemperaturetoCelsius(double_input);
                    Double obj_output = new Double(double_temperature);
                     String output = obj_output.toString();
                    txt output.setText(output);
                    txt_input.setText("");
         });
         frame.add(btn_process);
             txt_output = new JTextField(15);
             txt_output.setEditable(false);
         frame.add(txt_output);
         frame.setLocationRelativeTo(frame);
         frame.setVisible(true);
     public static void main (String[] args) {
        new GuiTemperature();
```