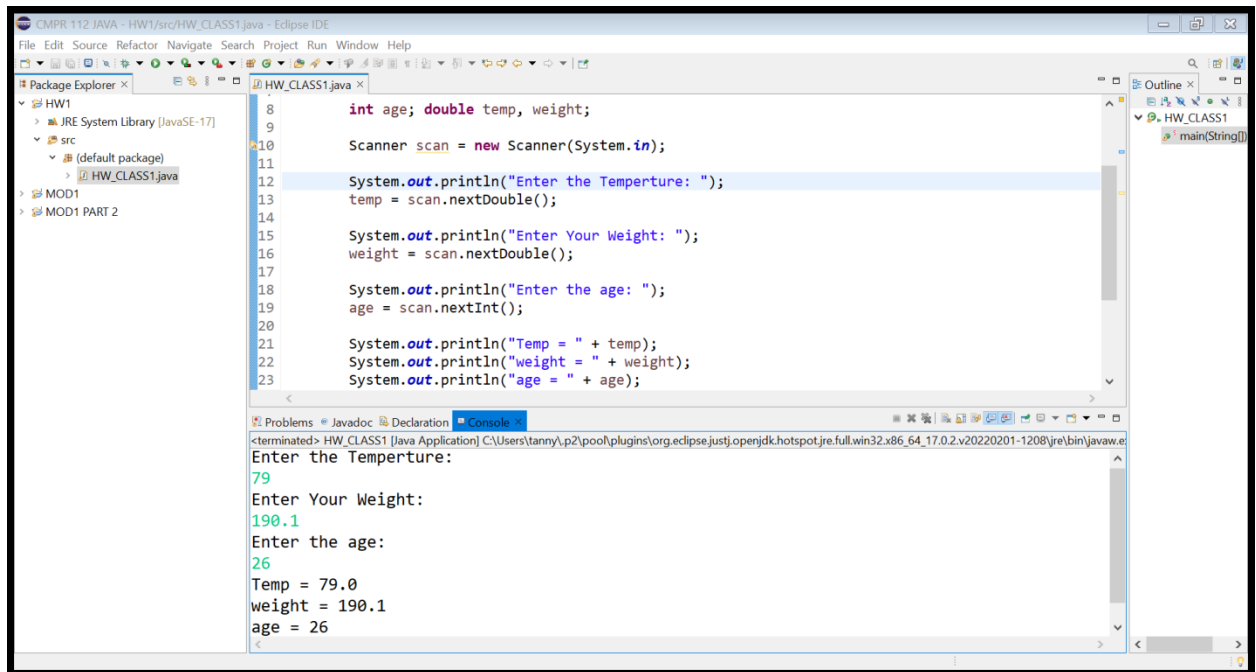


There are 5 print screens each worth 20%

1. Turn to page 103 and complete Question #1 Algorithm Workbench, be sure to have an output

#1 Print screen the code with the output below here.



The screenshot shows the Eclipse IDE interface. The Package Explorer on the left shows a project named 'HW1' with a source folder 'src' containing 'HW_CLASS1.java'. The main editor displays the code for 'HW_CLASS1.java' with line numbers 8 to 23. The code uses a Scanner to read temperature, weight, and age, and then prints them. The Console at the bottom shows the program's execution output, including prompts and user input.

```
8      int age; double temp, weight;
9
10     Scanner scan = new Scanner(System.in);
11
12     System.out.println("Enter the Temperture: ");
13     temp = scan.nextDouble();
14
15     System.out.println("Enter Your Weight: ");
16     weight = scan.nextDouble();
17
18     System.out.println("Enter the age: ");
19     age = scan.nextInt();
20
21     System.out.println("Temp = " + temp);
22     System.out.println("weight = " + weight);
23     System.out.println("age = " + age);
```

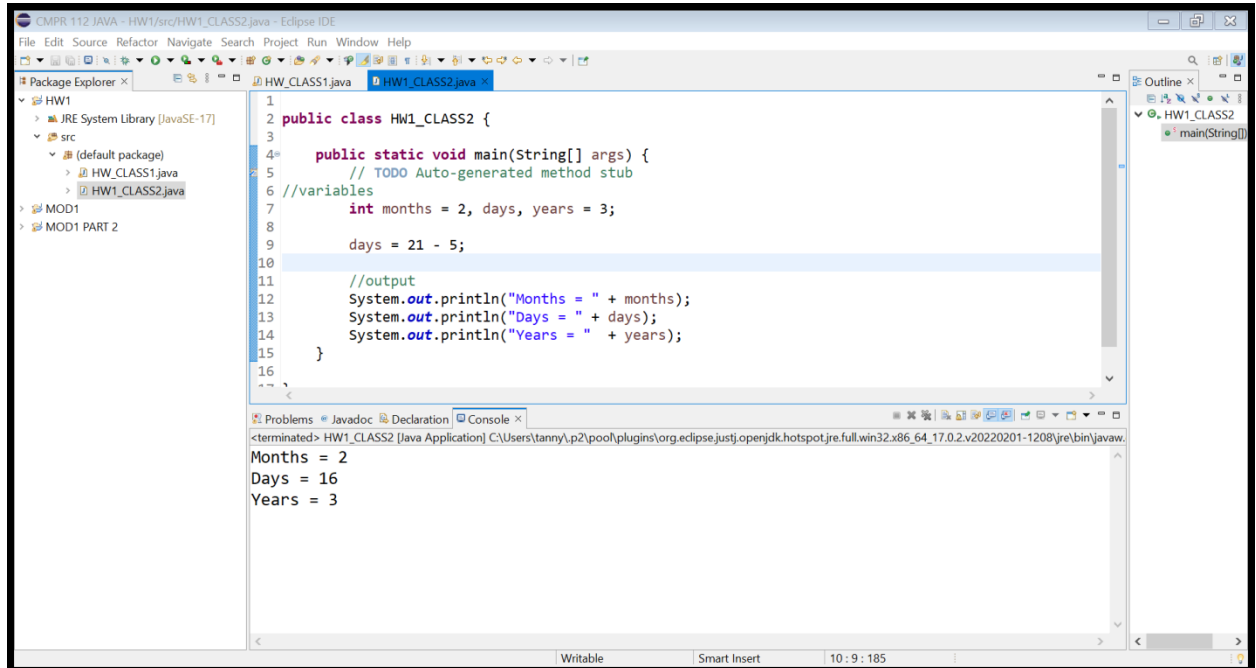
Console Output:

```
<terminated> HW_CLASS1 [Java Application] C:\Users\tanny\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220201-1208\jre\bin\javaw.e
Enter the Temperture:
79
Enter Your Weight:
190.1
Enter the age:
26
Temp = 79.0
weight = 190.1
age = 26
```

2. Turn to page 103 and complete Question #2 Algorithm Workbench, be sure to have an output

#2 Print screen the code with the output below here.

Santa Ana College
CMPR112
Week 1 Homework #1



The screenshot shows the Eclipse IDE with a project named 'CMPR 112 JAVA'. The Package Explorer on the left shows a package 'HW1' containing a source folder 'src' with files 'HW_CLASS1.java' and 'HW1_CLASS2.java'. The main editor displays 'HW1_CLASS2.java' with the following code:

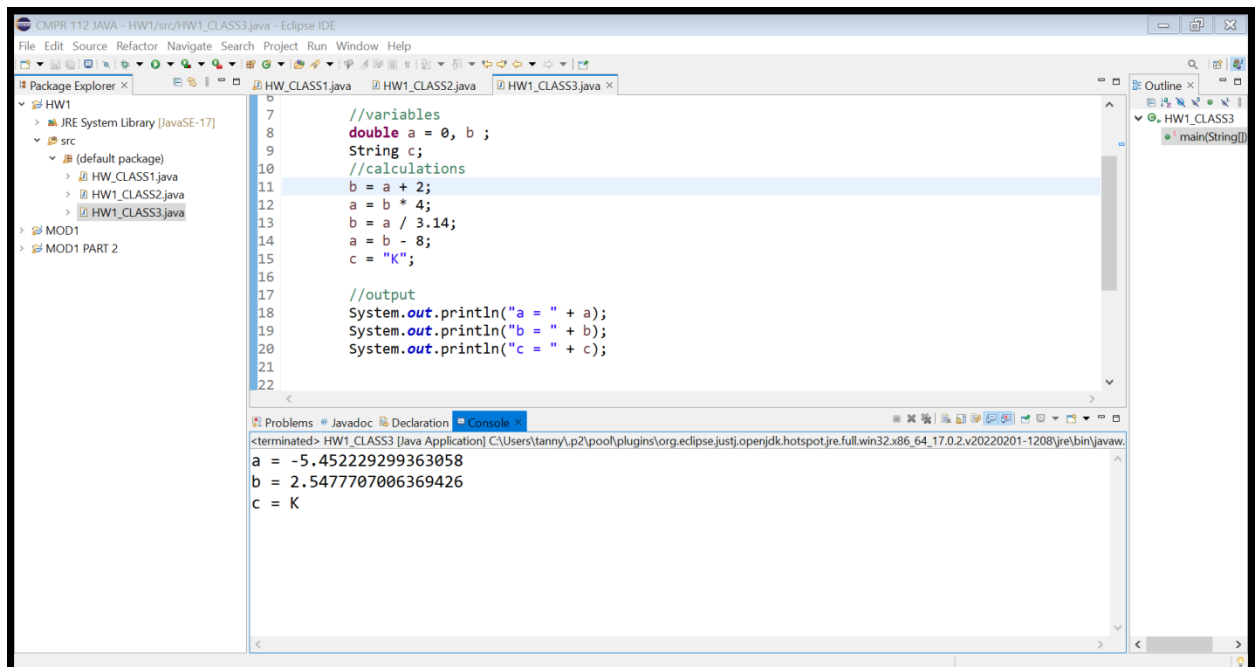
```
1 public class HW1_CLASS2 {
2
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         //variables
7         int months = 2, days, years = 3;
8
9         days = 21 - 5;
10
11         //output
12         System.out.println("Months = " + months);
13         System.out.println("Days = " + days);
14         System.out.println("Years = " + years);
15     }
16 }
```

The Console window at the bottom shows the output of the program:

```
<terminated> HW1_CLASS2 [Java Application] C:\Users\tanny\p2\poo\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220201-1208\jre\bin\javaw.
Months = 2
Days = 16
Years = 3
```

3. Turn to page 103 and complete Question #3 Algorithm Workbench, be sure to have an output

#3 Print screen the code with the output below here.



The screenshot shows the Eclipse IDE with a project named 'CMPR 112 JAVA'. The Package Explorer on the left shows a package 'HW1' containing a source folder 'src' with files 'HW_CLASS1.java', 'HW1_CLASS2.java', and 'HW1_CLASS3.java'. The main editor displays 'HW1_CLASS3.java' with the following code:

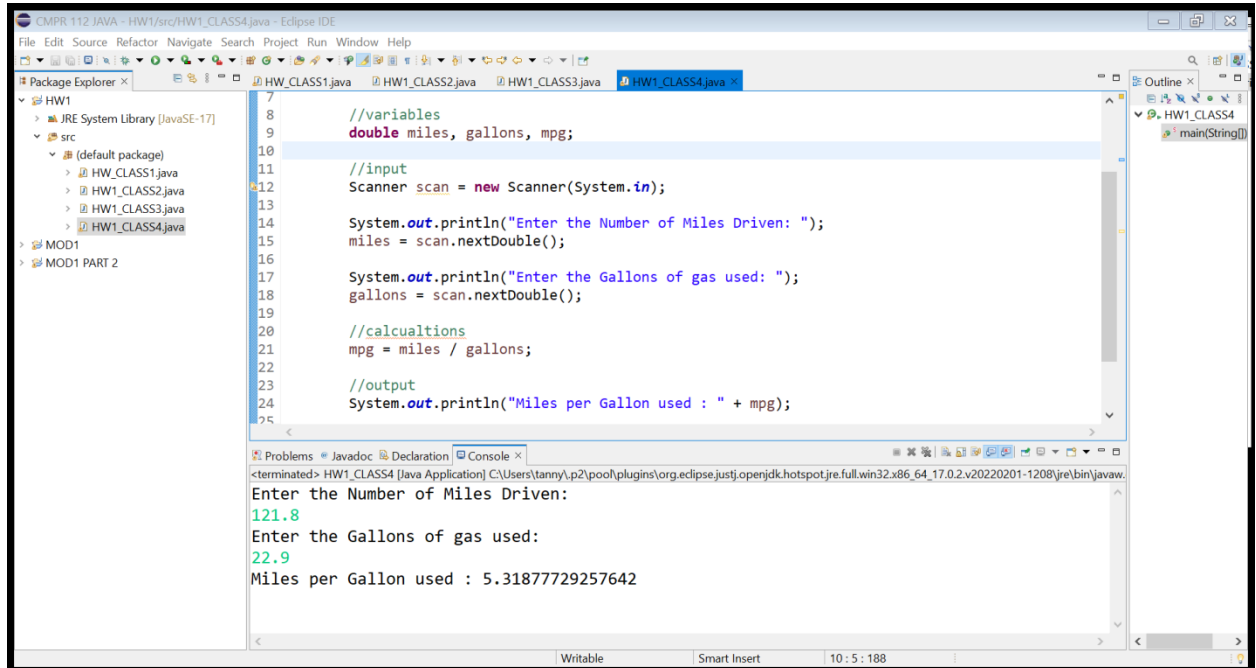
```
7 //variables
8 double a = 0, b ;
9 String c;
10 //calculations
11 b = a + 2;
12 a = b * 4;
13 b = a / 3.14;
14 a = b - 8;
15 c = "K";
16
17 //output
18 System.out.println("a = " + a);
19 System.out.println("b = " + b);
20 System.out.println("c = " + c);
21
22
```

The Console window at the bottom shows the output of the program:

```
<terminated> HW1_CLASS3 [Java Application] C:\Users\tanny\p2\poo\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220201-1208\jre\bin\javaw.
a = -5.452229299363058
b = 2.5477707006369426
c = K
```

4. Turn to page 107 and complete Q9 the (Miles-per-Gallon) program

#4 Print screen the code with the output below here.



The screenshot shows the Eclipse IDE with the file HW1_CLASS4.java open. The code is as follows:

```
7
8 //variables
9 double miles, gallons, mpg;
10
11 //input
12 Scanner scan = new Scanner(System.in);
13
14 System.out.println("Enter the Number of Miles Driven: ");
15 miles = scan.nextDouble();
16
17 System.out.println("Enter the Gallons of gas used: ");
18 gallons = scan.nextDouble();
19
20 //calculations
21 mpg = miles / gallons;
22
23 //output
24 System.out.println("Miles per Gallon used : " + mpg);
25
```

The console output shows the program execution:

```
<terminated> HW1_CLASS4 [Java Application] C:\Users\tanny\p2\poo\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220201-1208\jre\bin\javaw:
Enter the Number of Miles Driven:
121.8
Enter the Gallons of gas used:
22.9
Miles per Gallon used : 5.31877729257642
```

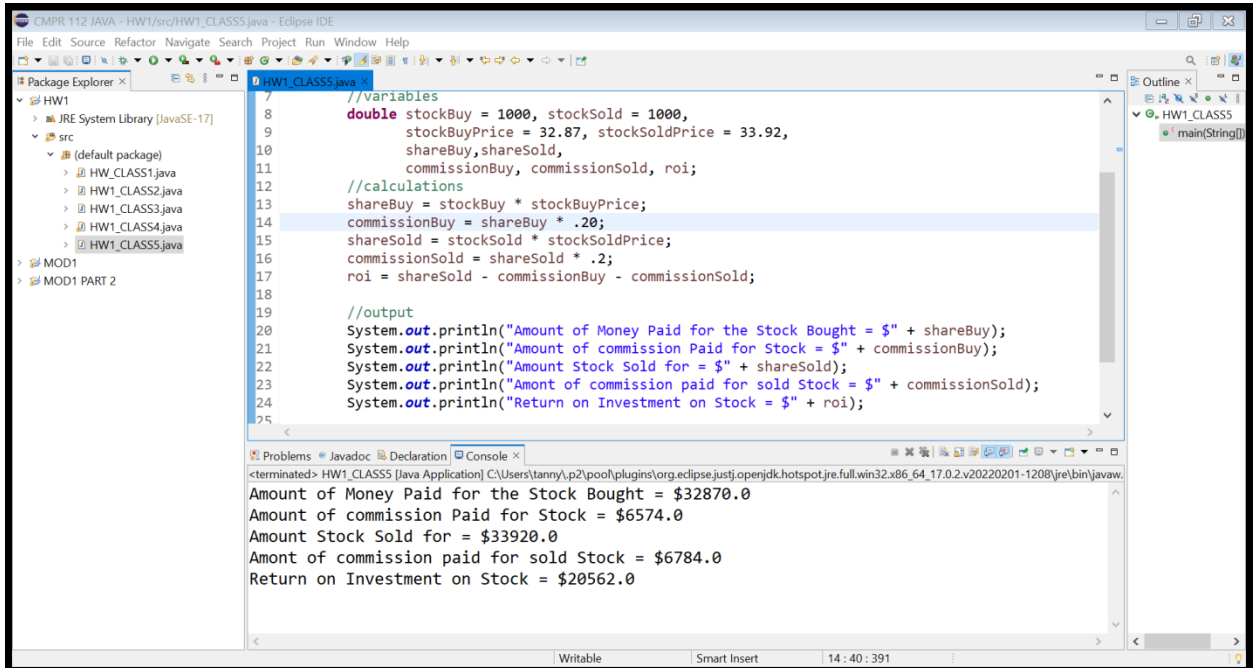
5. Turn to page 109 and complete Q19 the (Stock Transaction Program)

#5 Print screen the code with the output below here.

First screenshot is without asking user.

Second and Third screen shot is asking user for input

Santa Ana College
CMPR112
Week 1 Homework #1



The screenshot shows the Eclipse IDE with the file `HW1_CLASS5.java` open. The code defines variables for stock transactions and calculates the return on investment. The console output shows the results of these calculations.

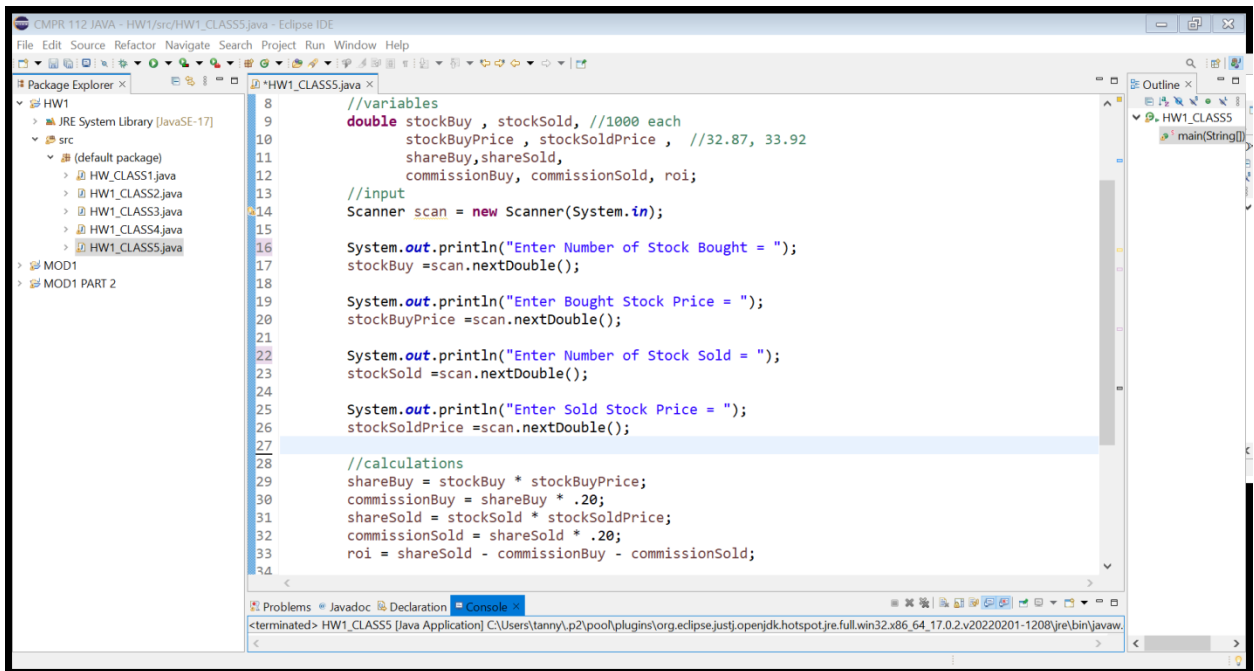
```
//variables
double stockBuy = 1000, stockSold = 1000,
stockBuyPrice = 32.87, stockSoldPrice = 33.92,
shareBuy, shareSold,
commissionBuy, commissionSold, roi;

//calculations
shareBuy = stockBuy * stockBuyPrice;
commissionBuy = shareBuy * .20;
shareSold = stockSold * stockSoldPrice;
commissionSold = shareSold * .20;
roi = shareSold - commissionBuy - commissionSold;

//output
System.out.println("Amount of Money Paid for the Stock Bought = $" + shareBuy);
System.out.println("Amount of commission Paid for Stock = $" + commissionBuy);
System.out.println("Amount Stock Sold for = $" + shareSold);
System.out.println("Amount of commission paid for sold Stock = $" + commissionSold);
System.out.println("Return on Investment on Stock = $" + roi);
```

Console Output:

```
<terminated> HW1_CLASS5 [Java Application] C:\Users\tanny\p2\poo\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220201-1208\jre\bin\javaw.
Amount of Money Paid for the Stock Bought = $32870.0
Amount of commission Paid for Stock = $6574.0
Amount Stock Sold for = $33920.0
Amount of commission paid for sold Stock = $6784.0
Return on Investment on Stock = $20562.0
```



The screenshot shows the Eclipse IDE with the file `HW1_CLASS5.java` open. The code uses a `Scanner` to take user input for stock transactions and calculates the return on investment. The console output shows the prompts and the results of the calculations.

```
//variables
double stockBuy, stockSold, //1000 each
stockBuyPrice, stockSoldPrice, //32.87, 33.92
shareBuy, shareSold,
commissionBuy, commissionSold, roi;

//input
Scanner scan = new Scanner(System.in);

System.out.println("Enter Number of Stock Bought = ");
stockBuy = scan.nextDouble();

System.out.println("Enter Bought Stock Price = ");
stockBuyPrice = scan.nextDouble();

System.out.println("Enter Number of Stock Sold = ");
stockSold = scan.nextDouble();

System.out.println("Enter Sold Stock Price = ");
stockSoldPrice = scan.nextDouble();

//calculations
shareBuy = stockBuy * stockBuyPrice;
commissionBuy = shareBuy * .20;
shareSold = stockSold * stockSoldPrice;
commissionSold = shareSold * .20;
roi = shareSold - commissionBuy - commissionSold;
```

Console Output:

```
<terminated> HW1_CLASS5 [Java Application] C:\Users\tanny\p2\poo\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220201-1208\jre\bin\javaw.
Enter Number of Stock Bought = 
Enter Bought Stock Price = 
Enter Number of Stock Sold = 
Enter Sold Stock Price =
```

Santa Ana College
CMPR112
Week 1 Homework #1

```
35 // Output
36 System.out.println("Amount of Money Paid for the Stock Bought = $" + shareBuy);
37 System.out.println("Amount of commission Paid for Stock = $" + commissionBuy);
38 System.out.println("Amount Stock Sold for = $" + shareSold);
39 System.out.println("Amount of commission paid for sold Stock = $" + commissionSold);
40 System.out.println("Return on Investment on Stock = $" + roi);
41
42 }
```

Enter Stock Bought =
1000
Enter Bought Stock Price =
32.87
Enter Stock Sold =
1000
Enter Sold Stock Price =
33.92
Amount of Money Paid for the Stock Bought = \$32870.0
Amount of commission Paid for Stock = \$6574.0
Amount Stock Sold for = \$33920.0
Amount of commission paid for sold Stock = \$6784.0
Return on Investment on Stock = \$20562.0

Submit this document to Module 1 Homework #1