Day 2: Algorithms and Pseudocode

1. a. What Does the Pseudocode Print?

 In “Memory”

 Cost Tax Tip

Output

b. Create a new BlueJ project and class: TableBill. The output should be:

Total bill for the table:

 $13.86

public class TableBill

{

 public static void main(String[] args)

 {

 double item1Cost = 1.00;

 double item2Cost = 10.00;

 double cost = 0;

 …

 }

 }

2. a. What Does the Pseudocode Print?

 n (Memory) Output

Explain this in words:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b. Create a new BlueJ project and class: WierdNumbers.

public class WierdNumbers

{

 public static void main(String[] args)

 {

 int n = 10;

 System.out.println(“n: “+n);

 n = n/2;

 System.out.println(“n: “+n);

 …finish the sequence to get the correct output…

 }

 }

3.

a. Calculate the cost for the SUV:

Price + Gas Cost = \_\_\_\_\_\_\_\_ + Gallons used\*gas price = \_\_\_\_\_\_\_\_\_ + (miles driven/mpg)\*gas price

b. Calculate the cost for the sedan:

Price + Gas Cost = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Write the pseudocode:

c. Create a new BlueJ project and class: CarCosts.

public class CarCosts

{

 public static void main(String[] args)

 {

 int car1Price = \_\_\_\_\_;

 int car1MPG = \_\_\_\_\_\_;

 //add two lines for the car 2 costs

 //add two more lines for the miles driven and the gas price.

 //add enough lines to calculate the cost to operate each car.

 //add enough lines to print the cost for each car with lables.

 }

 }