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.

}

}