Name ______ Period_____

```
1. The Assignment class below creates and manages assignments for a gradebook,
Assignment.java
public class Assignment {
   private String name;
    private int totalPoints;
   private int dueDate;
   public Assignment(String n, int tp, int dd){
        name = n;
        totalPoints = tp;
        dueDate = dd;
    }
    public String getFormattedDueDate(){
        int temp = dueDate;
        int year = temp%100;
        temp /= 100;
        int month = temp%100;
        temp /= 100;
        int day = temp;
        return month + "/" + day + "/" + year;
    }
   public int getTotalPoints(){
       return totalPoints;
   public String getAssignment(){
       return name;
    }
    public String toString(){
        String result = name + "is worth " + totalPoints + " points ";
        result += " and is due " + " on " + getFormattedDueDate();
        return result;
    }
}
```

```
A portion of the Gradebook class is shown below. You will write code to complete the remainder of this
class.
Gradebook.java
import java.util.Scanner;
public class Gradebook{
    public static void main(String args[]){
        //Creates a gradebook with 10 assignments
        Assignment gradebook[] = new Assignment[5];
        //Prompts the user for the assignment information
        Scanner input = new Scanner(System.in);
        System.out.println("What is the name of the assignment?");
        String name = input.nextLine();
        System.out.println("How many points is the assignment out of?");
        int points = input.nextInt();
        System.out.println("What is the due date (mm/dd/yy)?");
        String dueDate = input.next();
(a) A scanner is used to get the input required for each assignment. In the space below, write code that
   could be used to create an Assignment using the input provided.
```

(h)	Below is a	list of	assignments	that have	been	stored in	the array	gradebook.
(\circ)	DOIO II IS U	IIDC OI	abbiginition	tilat lia i c	CCCII	btorea m	are array	Siddeoon

Index	Name	Total Points	Due Date
0	Exam 1	18	90123
1	Exam 2	12	90823
2	Exam 3	17	91523
3	Lab 2	20	91523
4	Ticket Out the Door 4	5	90223

Lab 2 is worth 20	points and is due on 15/9/23			
			•	
located the assign	ment, print its corresponding i	nformation. For example	mple,	iave
In the speed helev	w, indicate how you could find	the essionment went	h the most points. Once you!	
4	Ticket Out the Door		90223	
2 3	Exam 3 Lab 2	17 20	91523 91523	
1	Exam 2	12	90823	
0	Exam I	18	90123	

(c)	A gradebook can b	e visualized as a	series of parallel	l arrays as follows.	Where the values in each array
	represent the total	points earned on	the correspondin	ig assignment.	

	Exam 1	Exam 2	Exam 3	Lab 2	Ticket Out the
					Door 4
Bart	15	9	14	20	2
Homer	14	11	12	18	4
Wilma	12	12	9	17	5

```
int Bart[] = {15, 9, 14, 20, 2};
int Homer[] = {14, 11, 12, 18, 4};
int Wilma[] = {12, 12, 9, 17, 5};
```

The avgGrades array stores the average grade for each assignment as a percentage. For example,

```
int avgGrades[] = {75, 88, 68, 92, 73}
```

In space below, write code that could be used to calculate the class average for each assignment and store the corresponding average in the avgGrades array.

/4

A report card needs to be generated for each student. Consider the report card for Bart,	
Exam 1: 15/18	
Exam 2: 9/12	
Exam 3: 14/17	
Lab 2: 20/20	
Ticket Out the Door 4: 2/5	
Final Grade: 83	
In the space below, write code that could be used to create the output shown for Bart using the	
Assignment class.	
	/5