

**HOMEWORK 06E – Due on week 4 day 1**

Create your custom-tailored *printable* Grade Report – see the last pages for the layout:

- **The paper size is 480 x 700**, vertical/portrait layout
- **At top left is the atdp logo, *programmed by you*:**  
 Program this image by drawing/filling *Rectangle*, etc. as you learned in your previous assignments – **You must program this; do NOT use the ATPD logo image**. You may fill in the letters in the logo or not; i.e., you have the liberty to redesign it a little, so use your creativity.
- **At the top right is the image, *programmed by you*.** You can either use your “Shape” image from the previous assignment, or create a new image (by using your “Car” class, or from scratch), as follows:
  - a) Run your previous “Shape” program to display the image on the screen
  - b) Use the Snipping Tool (or an equivalent tool) to copy the image and save in a file
  - c) Resize your image to approximately fit in the top-right area of your report, by using Paint (or an equivalent tool)
  - d) In your “Component” file, display that image file – see the source code
- **The middle part is the info about the report, *programmed by you***
  - a) Display the text for your course, your name, etc., using *drawstring* of the *Graphics2D* class in your program
  - b) Get your numerical score (given to you by the teacher/TA), to be hard-coded **in your program** – use **double** for the score
  - c) **Write the code to decide the letter grade in your program**, by using **if-else-if**, with the numerical score from (b), as follows:
 

score >= 94	A
90 <= score < 94	A-
87 <= score < 90	B+
84 <= score < 87	B
80 <= score < 84	B-
70 <= score < 80	PASS
score < 70	NO PASS
  - d) Draw 2 rectangles and the texts inside them for your parent/guardian’s signature & date – see the samples on the last pages
- **The bottom part** - This area is marked by the gray rectangle. In your program, display the comments from your teacher (given to you by the teacher/TA).
- **NOTE:** The locations for these parts are here so you can refer to the sample on the last page. **You may place these parts wherever on your own Report.**

**Download & study & modify the following:**

- **ReportComponent.java**: this is similar to your **ShapeComponent.java**, or **CarComponent.java** previously. You may use this **ReportComponent.java** file to start your own work.
- **ComponentPrintable.java**: add this file to your BlueJ project, and compile to detect the name that you must update
- **SwingPrinter.java**: add this file to your BlueJ project; you should be able to use this as-is, without any changes
- **JavaLogo.png**: this is the image file used in **ReportComponent.java**, *as an example* only. **You will use your own image**: (1) keep your image file inside your project folder (i.e., **Proj06**,

or equivalent), AND (2) change image file name in **ReportComponent.java**

- NOTE: We previously used **ShapeViewer** or **CarViewer**. It has been replaced with **ComponentPrintable.java** and **SwingPrinter.java**; and we now have printing capability.

**DELIVERABLES:**

- Submitted source files online
- Printed complete Grade Report, signed & dated by your parent/guardian, and handed in on due date

After getting the numerical score and comments from your teacher/TA, and after programming to get the letter grade and show the comments, print the complete Grade Report. If you are willing & able, print a color copy (which looks better than black & white) – but printing in color is *not* required.


**NOTE:** delete the code for the gray rectangles representing the blank area *before* printing. The Report looks better without this rectangle.

***Have one of your parents or guardians sign & date the report, and hand in on due date.***



Image (with shapes, text, etc.) created & programmed by you

By John Doe

Course: SD 3935.  – Programming in Java

Grade report, 7/6/2018

Student:  John Doe

Grade:  A

Signature by parent/guardian:

Date:

Comments by teacher:

Comments from the teacher go here.

atdp



Course: SD 3735.1 – Programming in Java

Grade report, 7/8/2016

Student: Athya Uthayakumar

Grade: A

Signature by parent:

Date:

Comments by teacher:

*Not shown here.*