Java1: Lesson 2 – Lab Project

1. Provide proper **comments** except for during 5-min recordings and interviews. However, comments will still **be required for the submission**.
2. **Cite** the source of your information.
3. Refrain from including anything **you don't fully understand**.

2

50 points

2-1. Analyze and explain the code line by line to determine its purpose.

1. Insert line numbers into the code: https://bit.ly/3DMjFxN
2. Apply your preferred **coding style**.
3. Use **descriptive** variable names that reflect the purpose of each variable.
4. Fill in any missing information indicated by "***".
5. Test your analysis with relevant and appropriate sample data to ensure accuracy and completeness.
6. Submit your analysis in .docx format.

2-2. Run the code with "smart" sample data that reflects the intended purpose of the code.

```
//This program is ***


public class Test1
{
  public static void main(String[] args) {
Scanner input = new Scanner(System.in);
 System.out.print("Enter ***: ");
double aaa = input.nextDouble();
      double bbb = (5.0 / 9) * (aaa - 32);
      System.out.println("aaa " + aaa + " is " + bbb + " in bbb");
} }
```

File(s) to submit	J102_2.docx J102_2.java/ J102_2.png

3

100 points

Write a code to produce an output similar to the sample output below.

1. Use the keywords: **print, println, printf** for sections A, B, and C respectively.
2. Use the following variable names:
   myName: your name
   myMiddle: your middle name initial
   myAge: your age
   pi = 3.141592

Sample output	A. print ============================ My name is Barak Z. Trump. I am 20 years old. Pi is 3.141592 B. println ============================ Name : Barak Trump Initial : Z Age : 20 Pi : 3.141592

		C. printf ========== My name is Barak Z. Trump and 20 years old. Pi : 3.141592 Pi : 3.14159 Pi : 3.1415 Pi : 3.14 Pi : 3.1
	File(s) to submit	J102_3.java J102_3.png
4	50 points Create a **JavaNote** file (in txt, .docx, or .java format) to summarize what you've learned in class. **JavaNote** allows you to **quickly reference** important syntax and concepts during recordings, interviews or coding, thereby improving your **coding speed** and **accuracy**. Make sure to update the contents of the file regularly for maximum effectiveness. **Note that including entire executable code in your javaNote can be considered cheating.* *Therefore, it is recommended to only include **key algorithms**, **concepts**, **syntax**, and best practices.*	
	File(s) to submit	javaNote.txt/ .docx/ .java