

# AP Computer Science

## Summer Work

2018-2019 School Year

This summer for AP Computer Science, you will be expected to watch a portion of a video series on a website called the New Boston. These videos will help you learn the basics of programming, specifically using Java which is the language used on the AP test. You simply need to watch these videos, but it is recommended that you follow along on a computer if possible. If you would like to follow along, the videos show you what you what programs you need to install as well as where to find them online.

The actual summer work must be completed by hand. You may type your programs in the computer to test them, but make sure what you turn in is actually **written by hand**.

**Part 1:** Watch the New Boston videos- Java Programming Tutorial numbered 1 through 30 on YouTube:

<https://www.youtube.com/watch?v=Hl-zzrqQoSE>

Above is the link for video 1, you may have to search for the remaining videos

These are generally short (3-5 minutes each).

**Part 2:** Write out the following programs by hand:

2.1 Write a program that reads four numbers (doubles) using a scanner and displays their average.

2.2 Write a program that reads two integers and displays their sum, product, and difference.

2.3 Write a program that reads an integer, and then prints all the even numbers between 2 and that integer. If the integer is less than 2, display "Error".

Ex. If the user enters "17", the program will display "2 4 6 8 10 12 14 16"

Ex. If the user enters "-5", the program will display "Error"

Ex. If the user enters "8", the program will display "2 4 6 8"

2.4 Write something cool. It doesn't have to be big or too time consuming. Just try to come up with something interesting using what you learned in the videos.

**Part 3:** Turn these assignments in by the third day of school. We will then have a review followed by a brief quiz where you will be asked to write a few basic programs like the ones above.

Also feel free to watch more of the videos if you please! It may even be useful to look up any topics that you don't quite get on Youtube.