White Station High School-Mr. Harris-Room M110 AP Computer Science A- Summer Assignment, 2022

The purpose of the AP Computer Science (AP CS A) summer assignment is to prepare students for the challenges in AP CS A and to ensure the student is aware of the content and commitment level involved in this college level course. Don't worry if you have never programmed. AP CS A will teach you how to code in Java. Please read and complete all steps in this document. The assignment is due by the first week of class.

1.	Read Chapter 1: "The Way of the Program" in the free online textbook, "Think Java: How to
	Think Like a Computer Scientist" by Allen B. Downey and Chris Mayfield. The textbook is
	located at thinkjava.org-2nd Edition, Version 7.1.0. You can download the textbook as a pdf or
	read it online.

2.	Complete the	Summer	Assignment	Questions	(next page).	The as	ssignment i	s due by	the the	first
	week of class.	_								

Over the summer, I usually check emails weekly. If you need anything or have a concern, please email me at harristm@scsk12.org.

Have a great summer and I am looking forward to seeing you in August.

AP Computer Science Summer Assignment Questions

Name:			
Date: _			

	After reading Chapter 1: "The Way of the Program" in the online textbook, "Think Java: How to Think Like a Computer Scientist", answer the following questions.
1.	How does thinking like a computer scientist compare to thinking like a mathematician, an engineer, and a scientist?
2.	What is the single most important skill for a computer scientist? Explain.
3.	Java is an example of a high-level language. What is the difference between a high-level language and a low-level language?
4.	List two advantages of programming in a high-level language. List one disadvantage.
5.	In Computer Science/Programming, what does portable mean?
6.	What is an interpreter?
7.	What is a compiler?

8. What language is used in AP Computer Science?
9. What is source code?
10. What is debugging?
11. What symbol is required at the end of every statement?
12. What is the purpose of {} squiggly braces in java?
13. What is the purpose of a comment?
14. What does the compiler do when it sees //, the comment symbol?
15. What are your goals for this course?
16. Tell me something interesting about yourself.