**Discussion Question:**

[**https://cisdprogram.com/dpayne/CSD320/**](https://cisdprogram.com/dpayne/CSD320/)

Search the Internet for a helpful Java website, excluding W3Schools, and post a link along with a detailed description as to why you found it helpful.

Hello Bethany, I agree with you 100% that YouTube videos are great sources for learning. I feel comfortable with visual learning. I like to search and understand things with practice. I spent a few minutes watching the video that you linked to your post, and I feel that it is a good source of leaning java programming language. The guy is clear in his while explaining the code and he takes time to write the code to show it importance. I like your links, they are very good.

I like to learn from a video but if it is too long, I am tired of it and I do not learn a lot from it.

I visited the website link that you posted. The site is full of valuable information on java programing language. There are a lot of codes, programs and many other staffs related to Java. This site is like Greeks for Greeks website. It does cover every aspect of Java programming. It’s kind of the whole course of java programming language. There are topics like input /Output, difference between print() and Println() methods, Loops, decision, if statement, java conversion program, tree programs, prime number program in java, automorphic number in java, operators etc. I will definitely keep this link for future learning.

Hi Jeff, I did use Greeks for Greeks website to search for programming staff in my last two programming courses. This site is very good because it covers a bunch of information and explains with examples the concepts. When I navigated through the site that you link to your work, I found the page very interesting. It does cover every aspect of Java programming. It’s kind of the whole course of java programming language. There are a topic like input /Output, difference between print() and Println() methods, Loops, decision, if statement, map, operators.

<https://www.javacodegeeks.com/2015/06/java-programming-tips-best-practices-beginners.html>

Searching for a helpful website to learn java, I came across this site. This site presents 30 Java programming tips and best practices for beginners like me. Reading trought the page, I really appreciated tips and tricks. For example, one tip is to make a difference between a single quote and double quotes. For me, either single quotes or double quotes are used to write string. But here in java, the double quotes are for string and while using the single quote, the values are converted into integer and output the equivalent numbers. Here is an example from the site.

**public** **class** Haha {

**public** **static** **void** main(String args[]) {

    System.out.print("H" + "a"); / returns Ha

    System.out.print('H' + 'a'); /this converts to equivalent number returns 169

    }

}

Another tip is how to time operation in java? The site presents two ways: **System.currentTimeMillis()**and **System.nanoTime(). According to the site, System.currentTimeMillis takes somewhere between 1/1000th of a second to 15/1000th of a second (depending on the system) but System.nanoTime() takes around 1/1000,000th of a second (1,000 nanos).**

**There are other tips such as computation of power using pow(), Handling Null point exception, listing content of a directory, using FileInputStreams and FileOutputStream classes for input and output data. Here is the example provided by the author for IO.**

**import** java.io.\*;

**public** **class** myIODemo {

**public** **static** **void** main(String args[]) **throws** IOException {

        FileInputStream in = **null**;

        FileOutputStream out = **null**;

**try** {

            in = **new** FileInputStream("//home//user//Documents//InputFile.txt");

            out = **new** FileOutputStream("//home//user//Documents//OutputFile.txt");

**int** c;

**while**((c = in.read()) != -1) {

                out.write(c);

            }

        } **finally** {

**if**(in != **null**) {

                in.close();

            }

**if**(out != **null**) {

                out.close();

            }

        }

    }

}

I found this site very helpful because it presents a lot of tips about Java programming language.

**Assignment:**

Write a program that calculates the energy needed to heat water from an initial temperature to a final temperature. Your program should prompt the user to enter the amount of water in kilograms and the initial and final temperature of the water.

The formula to use for this program is:

1. Q = waterMass ( finalTemperature – initialTemperature ) x 4184
2. waterMass is water weight in kilograms
3. finalTemperature and initialTemperature are temperatures in Celsius
4. Q is the results in Joules

Visual studio solve

https://code.visualstudio.com/docs/java/java-project