**Day 4\_Java Assignment**

**1. Problem Description:**

What is the difference between JDK, JRE and JVM?

**2. My Solutions:**

**JVM:**

* JVM stands for “Java Virtual Machine”. It doesn’t physically exist. It provides a runtime environment in which Java bytecode can be executed. JVM, JRE, JDK are platform dependent because the configuration of each OS is different from each other. But Java is platform independent.

**JVM performs following actions:**

* Loads code
* Verifies code
* Executes code
* Provides runtime environment

**JRE:**

* JRE stands for “Java Runtime Environment”. The Java Runtime Environment is a set of software tools which are used for developing Java applications. It is used to provide runtime environment. It is the implementation of JVM. It is physically exists. It contains set of libraries + other files that JVM uses at runtime.

**JDK:**

* JDK stands for “Java Development Kit”. The JDK is a software development environment which is used to develop Java applications and applets. It physically exists. It contains JRE + development tools.
* JDK contains a private Java Virtual Machine (JVM) and a few other resources such as an interpreter/loader (java), a compiler (javac), an archiver (jar), a documentation generator (Javadoc), . to complete the development of Java Application.
* It contains tools for compiling, debugging, and running Java code.