**Assignment No. 3**

**Q1. What is Java?**

**Ans:** Java is programming language. Java language was developed by Sun Microsystems in 1995. Java is general-purpose, class-based and object oriented programing language. Java language is also called as **WORA** (write once, run anywhere). Java programming language is designed by James Gosling. Once Java compiled it will work on all platforms that supports java. Latest version of java 16 is released in March 2021.

List of Some applications that you can develop with Java,

1. Mobile Applications
2. Desktop Applications
3. Web-based Applications
4. Gaming Applications
5. Cloud-based Applications
6. Enterprise Applications
7. Business Applications

**Q2. What is a package in Java? List down various advantages of packages.**

**Ans:** A java package is group of similar types of classes, interface and its sub classes. Using import statement we can use that existing java packages in our program. We can use that existing java packages as may times as we need in program.

There are many built-in packages such as java, lang, awt, javax, swing, net, io, util, sql etc.

Advantages:

1. Java package is used to categorize the classes and interfaces so that they can be easily maintained.
2. Java package provides access protection.
3. Java package removes naming collision.

**Q3. Explain JDK, JRE and JVM?**

**Ans:** JDK: (Java Developement Kit) JDK provides environment for Software development. JDK contains JRE and Developement tools. JDK is Platform dependent

**Q4. Explain public static void main(String args[]) in Java.**

**Ans:**

public: it is an access modifier

static: method modifier

void: return type

main: method name

String: Data Type

args[]: parameters String Array

**Q5. What are the differences between C++ and Java?**

**Ans:**