

## **Title: Introduction to Java Programming – Taguig City University**

### **Objective:**

To create a detailed laboratory activity blog post for Taguig City University using the Gutenberg editor in WordPress, incorporating images, videos, and hyperlinks while organizing content with categories and tags.

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### **Step 1: Creating a New Blog Post**

1. Log in to your WordPress dashboard.
2. Navigate to **Posts > Add New**.
3. Enter a title: "**Introduction to Java Programming – Taguig City University**".

*(Insert an image of the WordPress editor interface here)*

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### **Step 2: Writing and Structuring the Blog Post**

Use Gutenberg blocks to enhance readability.

### **Introduction**

Java is a widely used object-oriented programming language known for its portability, security, and efficiency. In this activity, students will learn the basics of Java programming, including writing and executing a simple Java program.

*(Insert an image of Java logo or code snippet here)*

### **Software and Tools Required**

- Java Development Kit (JDK) (Latest version)
- Integrated Development Environment (IDE) such as IntelliJ IDEA, Eclipse, or NetBeans
- Command Line Interface (CLI) or Terminal
- A text editor (e.g., Notepad++, VS Code)

*(Insert an image of an IDE setup here)*

### **Procedure**

1. **Setting Up Java Environment**
  - Download and install the JDK from [Oracle's official website](https://www.oracle.com/in/java/technologies/javase-downloads.html).
  - Set up environment variables if needed.
  - Verify the installation by running the command:

```
java -version
```

*(Insert an image of command line showing Java version here)*

## 2. Writing Your First Java Program

- Open your IDE or text editor.
- Create a new Java file named `HelloWorld.java`.
- Type the following code:

```
public class HelloWorld {  
    public static void main(String[] args) {  
        System.out.println("Hello, World!");  
    }  
}
```

- Save the file.

*(Insert an image of a Java code snippet here)*

## 3. Compiling and Running the Java Program

- Open the command prompt or terminal.
- Navigate to the directory where `HelloWorld.java` is saved.
- Compile the program using:

```
javac HelloWorld.java
```

- Run the program:

```
java HelloWorld
```

- The output should display: **"Hello, World!"**

*(Insert an image of terminal output here)*

## 4. Exploring Java Syntax and Concepts

- Variables and Data Types
- Control Statements (if-else, loops)
- Methods and Functions
- Object-Oriented Programming (OOP) Basics

*(Insert an image of Java syntax examples here)*

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## Step 3: Embedding Multimedia in Gutenberg

- **Add Images:** Use the **Image Block** to upload relevant code snippets.
- **Embed Videos:** Use the **YouTube Block** to insert an introductory Java tutorial.

- **Insert Hyperlinks:** Link to Java documentation and tutorials.

*(Embed a video explaining Java basics here)*

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#### **Step 4: Organizing with Categories and Tags**

- Assign **Categories:** "Taguig City University", "Programming", "Java Development"
- Add **Tags:** "Java", "Programming", "Coding", "Gutenberg Tutorial", "TCU Laboratory Activity"