LAB ACTIVITY 1: Introduction to Java Programming

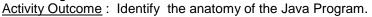
Learning Outcomes:

By the end of this laboratory session, you should be able to:

- 1. Identify the features of Java programming language.
- 2. Apply programming style and documentation in Java.
- 3. Write, compile and run the Java programs.
- 4. Troubleshoot the source code to identify the errors in Java.

Hardware/Software: Computer with JDK latest version.

Activity 1A





Procedure:

- 1. Analyze the HelloWorldApp program
- 2. Complete the following table with the correct line number and code of Java program:

No	Components	Line No	Corresponding Code
1.	Comments		
2.	Class name		
3.	Access modifier		
4.	Argument		
5.	Static method		

Activity 1B

<u>Activity Outcome</u>: Identify programming style and documentation in Java. Write java program with programming style and documentation.



Procedure

Step 1: Open Notepad and type the following code:

Step 2: Save, compile and run the program. Save the program as Act1B.java. Write the output in the area below.

Output:				

Activity 1C



<u>Activity Outcome</u>: Identify programming style and documentation in Java program. Write java program with programming style and do documentation.

Procedures:

Step 1: Open Notepad and type the following code:

/* Activity 1C */
<pre>public class Act3F { public static void main(String[] args) {</pre>
int number1 = 11; int number2 = 22; int number3 = 33; int number4 = 44;
<pre>int number5 = 55; int sum;</pre>
<pre>sum = number1 + number2 + number3 + number4 + number5;</pre>
System.out.print("The sum is ");
<pre>System.out.println(sum); }}</pre>

Step 2: Add the appropriate comments and comment style, proper indention and spacing and block styles

Step 3: Save, compile and run the program. Save the program as Act1C.java. Write the output in the area below.

Output:			

Activity 1D (CLO2)



<u>Activity Outcome</u>: Identify programming errors in Java program. Identify the errors and modify the program to fix the error(s).

Activity 1E (CLO2)



<u>Activity Outcome</u>: Identify programming errors in Java program. Identify the errors and modify the program to fix the error(s).

```
/* Activity 1E //
class Act1E
{
  public static void Main(String[] args)
{
     double price1=50.65;
     double total = price1/0;
     System.out.println ("Total price is "+total);
}
}
```

Write the correct program below:

Program:	

Activity 1F (CLO2)



Activity Outcome: Identify programming errors in Java.

Identify syntax errors in Java, implements programming style and documentation.

Procedures:

Step 1 : Open Notepad and type the following code:

```
/* Activity 1F */
Class Act3I {
    public Static void main(String[] args) {
        Sytem.out.prntln("Hello World!");
    }
}
```

- **Step 2:** Save the program as Act1F.java in the working directory, compile and run the program.
- Step 3: Observe the output.
- **Step 4:** Identify the syntax error and correct the syntax errors.
- Step 5: Save your program, compile and run the program again.

Output:

Activity 1G (CLO2)



<u>Activity Outcome</u>: Identify programming errors in Java. Identify logic errors in Java, implements programming style and documentation.

Procedures:

Step 1: Open Notepad and type the following code:

- Step 2: Save the program as Act1G.java in the working directory, compile and run the program.
- Step 3: Observe the output.
- Step 4: Identify the logic error and correct the logic errors.
- **Step 5 :** Save your program, compile and run the program again.

Output:

1		
I		
1		