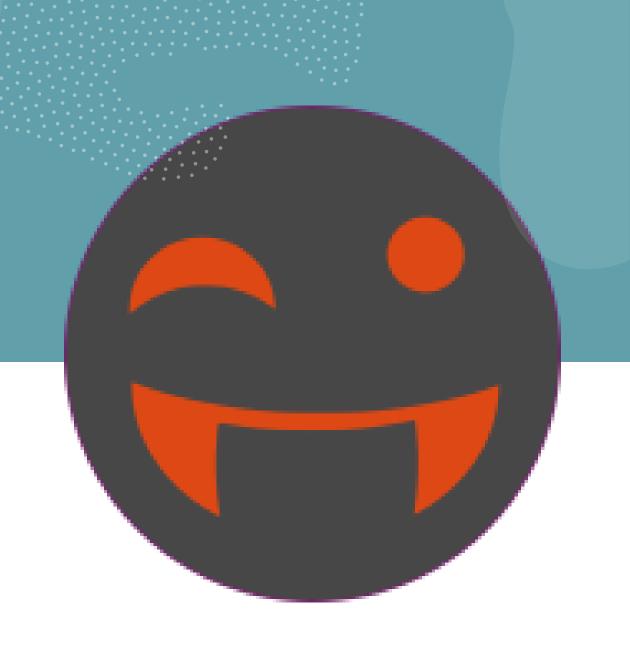
Chapter 4

Difference between a program, package, library & application?



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Program?

Program is a set of instructions used to perform a **task**

```
import java.util.Scanner;
public class Addition{
public static void main(String args[]) {
    Scanner scanner=new Scanner(System.in);
    System.out.println("Enter first number");
    int a = scanner.nextInt();
    System.out.println("Enter second number");
    int b = scanner.nextInt();
    int c = a+b;
    System.out.println("Addition is: "+c);
}
```



Will create a <u>project</u> to develop this application



Suresh Techs Software Solutions

Application, is short app, is a software that performs specific tasks for an end user

Software Engineers
Employees



Tasks

- 1. App bar
- 2. Normal call
- 3. Video calling
- 4. Chat
- 5. Text field
- 6. Voice message
- 7. Settings
- 8. Profile
- 9. Attachments
- 10. Open camera



call.java

network

WhatsApp

appBar.java

call.java

videoCall.java

utils.java

chatLeft.java

chatRight.java

voice.java

settings.java

userProfile.java

gallery.java

onlineStatus.java

encrypt.java

attachments.java

user.java

profile.java

WhatsApp



call.java

- videoCall.java

voice.java

chat

- chatLeft.java

-- chatRight.java

encrypt.java

decrypt.java

appBar.java

settings.java

utils.java

userProfile.java

gallery.java

onlineStatus.java

attachments.java

user.java

profile.java

Package inside another called a **sub package**

Program?

Program is a set of instructions used to perform a **task**

In order to develop an application we need to create programs

```
import java.util.Scanner;
public class Addition{
   import java.util.Scanner;
   public class Addition{
   public class Addition{
   public static void main(Stpublic static void main(String args[]){
        Scanner scanner=new Scanner(System.in);
        System.out.printlpublic import jimport java.upubli jublic class Scanner scanner=new Scanner(System.in);
   public public class System.out.println("Enter first number");
   public Spublic class System.out.println("Enter second number");
   public System.out.println("Enter second number");
   public System.out.println("Enter second number");
   public System.out.println("Addition is: "+c);
        int int a = s;
        int int b = s;
        system.out.println("Addition is: "+c);
        sint int c = s;
        system.out.println("Addition is: "+c);
        system.out.println("Additi
```

```
import java.util.Scanner;
public class Addition{
public static void main(String args[]) {
    Scanner scanner=new Scanner(System.in);
    System.out.println("Enter first number");
    int a = scanner.nextInt();
    System.out.println("Enter second number");
    int b = scanner.nextInt();
    int c = a+b;
    System.out.println("Addition is: "+c);
}
```



Will create a <u>project</u> to develop this application



Suresh Techs Software Solutions

Application, is short app, is a software that performs specific tasks for an end user

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Employees

Difference between a program, package, library & application?

Library

A library is nothing but a set of functions that you can use(call) to perform your requirement/task in an easy way

Java library is just a collection of classes that have been written by somebody else already

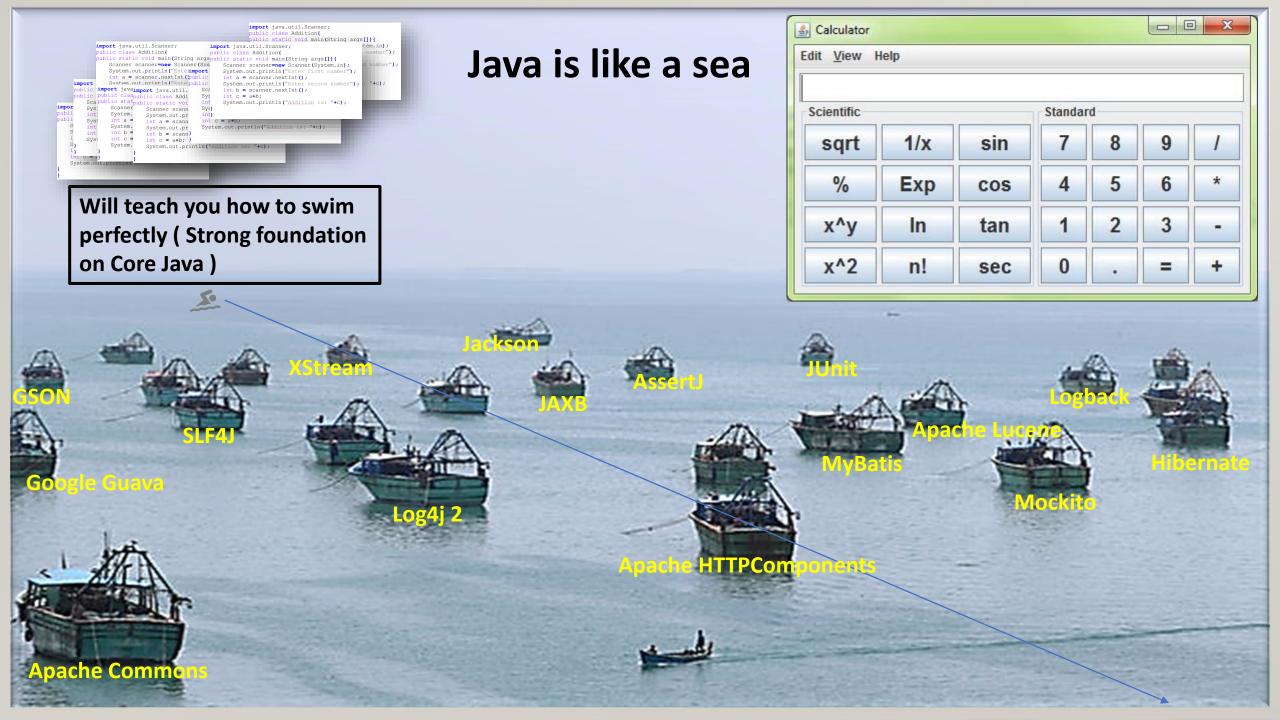
- 1. Java Standard libraries
- 2. Apache Commons
- 3. Jackson
- 4. Maven
- 5. Google-json
- 6. Log5j and Slf4j
- 7. JUnit
- 8. Google Guava
- 9. JAXB
- 10. HTTP Libraries

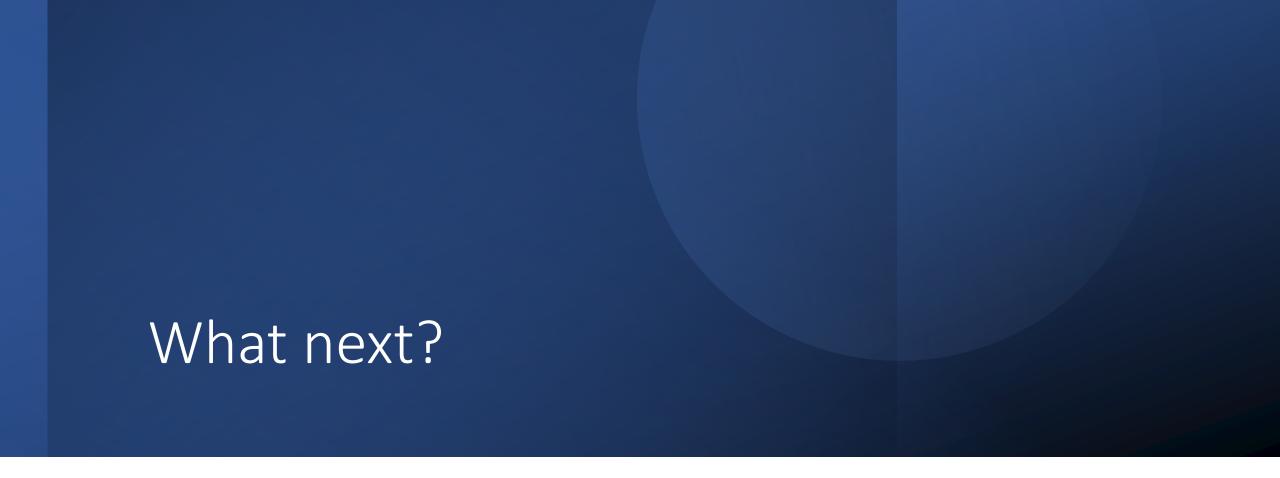


Swing is a GUI widget toolkit for Java.

The **javax.swing** package provides classes for java swing API such as **JButton**, **JTextField**, JTextArea, JRadioButton, JCheckbox, **JMenu**, JColorChooser etc







How to execute a Java Program



చిన్న బ్రేక్ చిటికలో వచ్చేస్తా

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