

Swift Hello World Program

Swift Hello World Program

Printing “Hello World” message to output is the basic program through which one can get introduced to any programming language.

In this tutorial, we will learn how to print Hello World message to output.

First, let us create a Command Line Tool project in Xcode.

Open Xcode. A window appears as shown in the following screenshot.

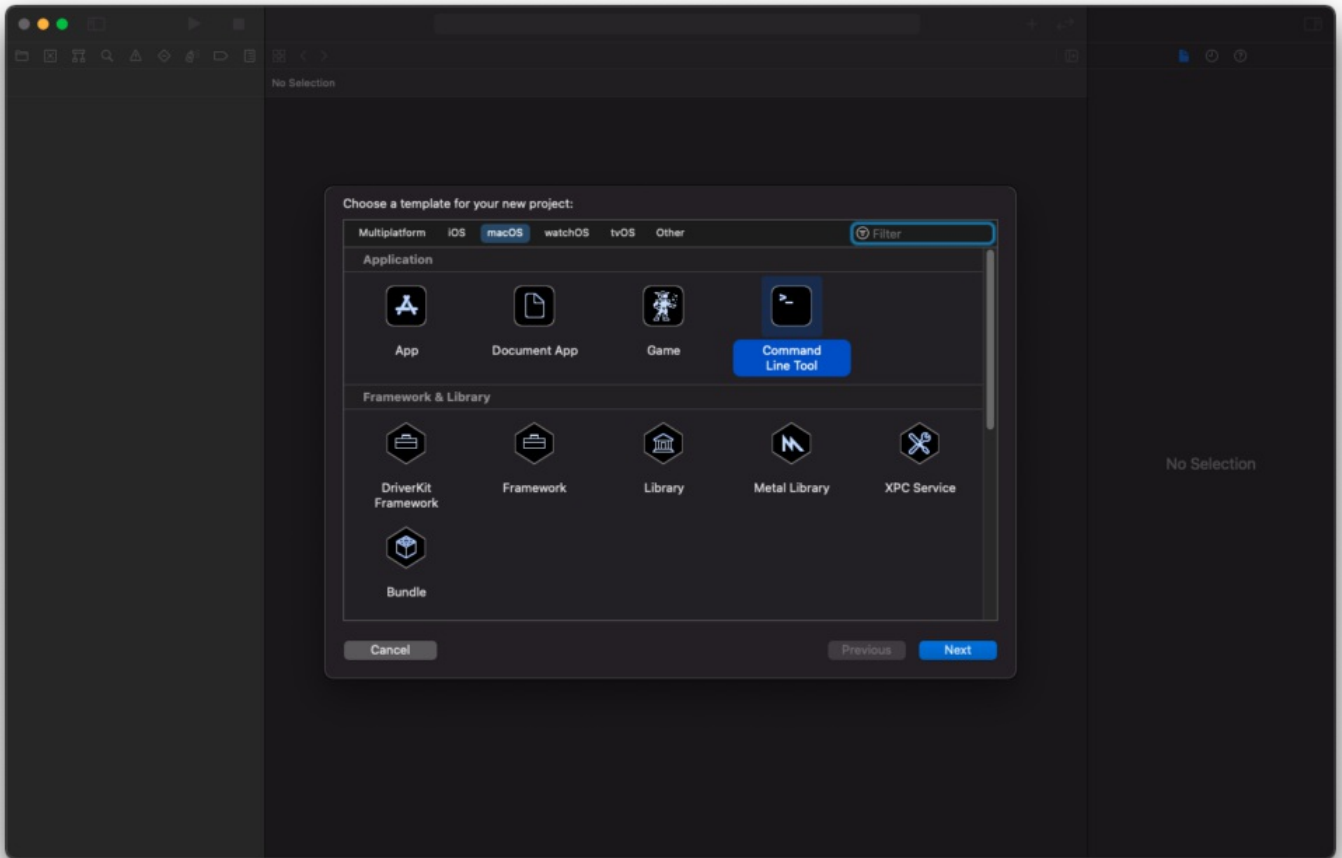


Click on Create a new Xcode project.

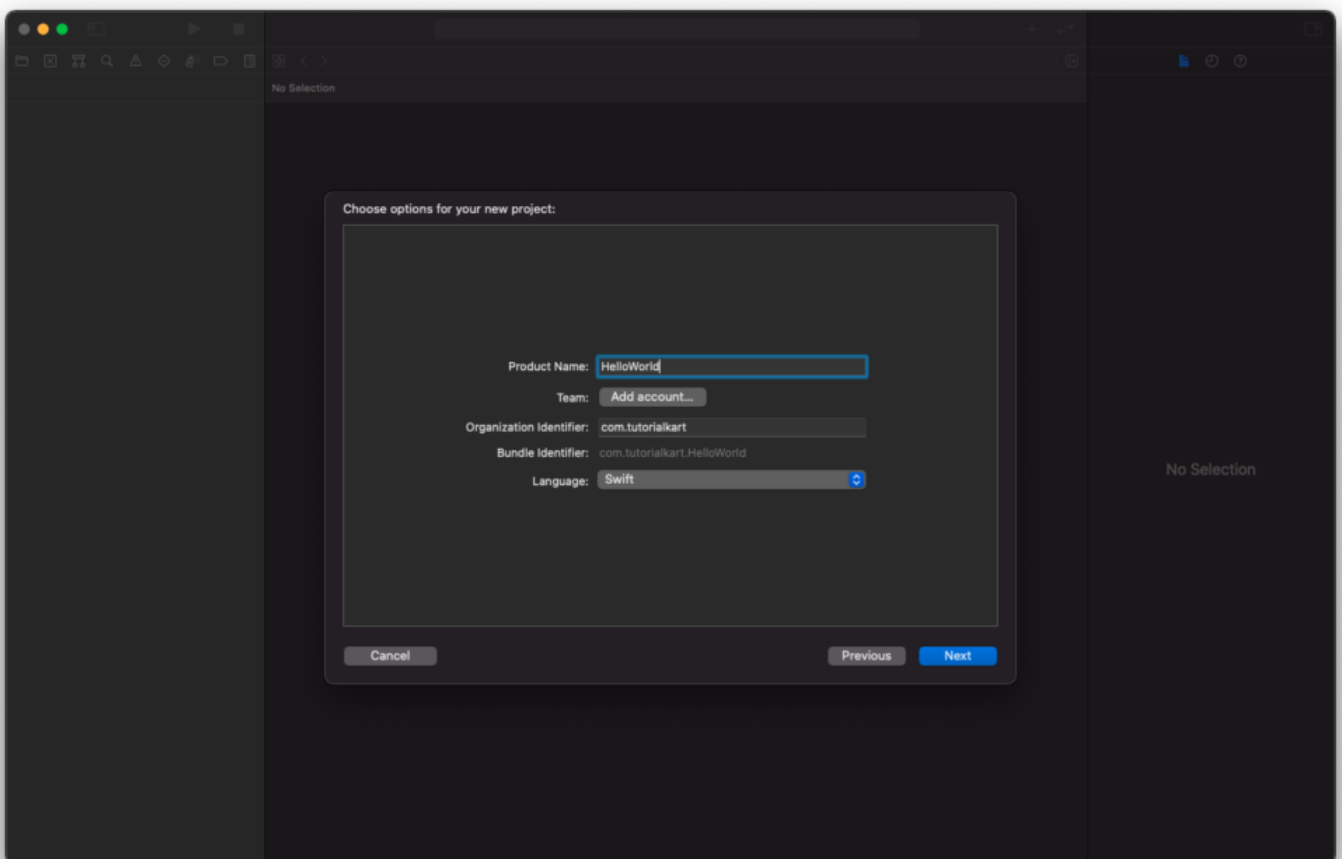


Now, we have to choose a template for our project. To get started with learning Swift programming, we will create a Command Line Tool project.

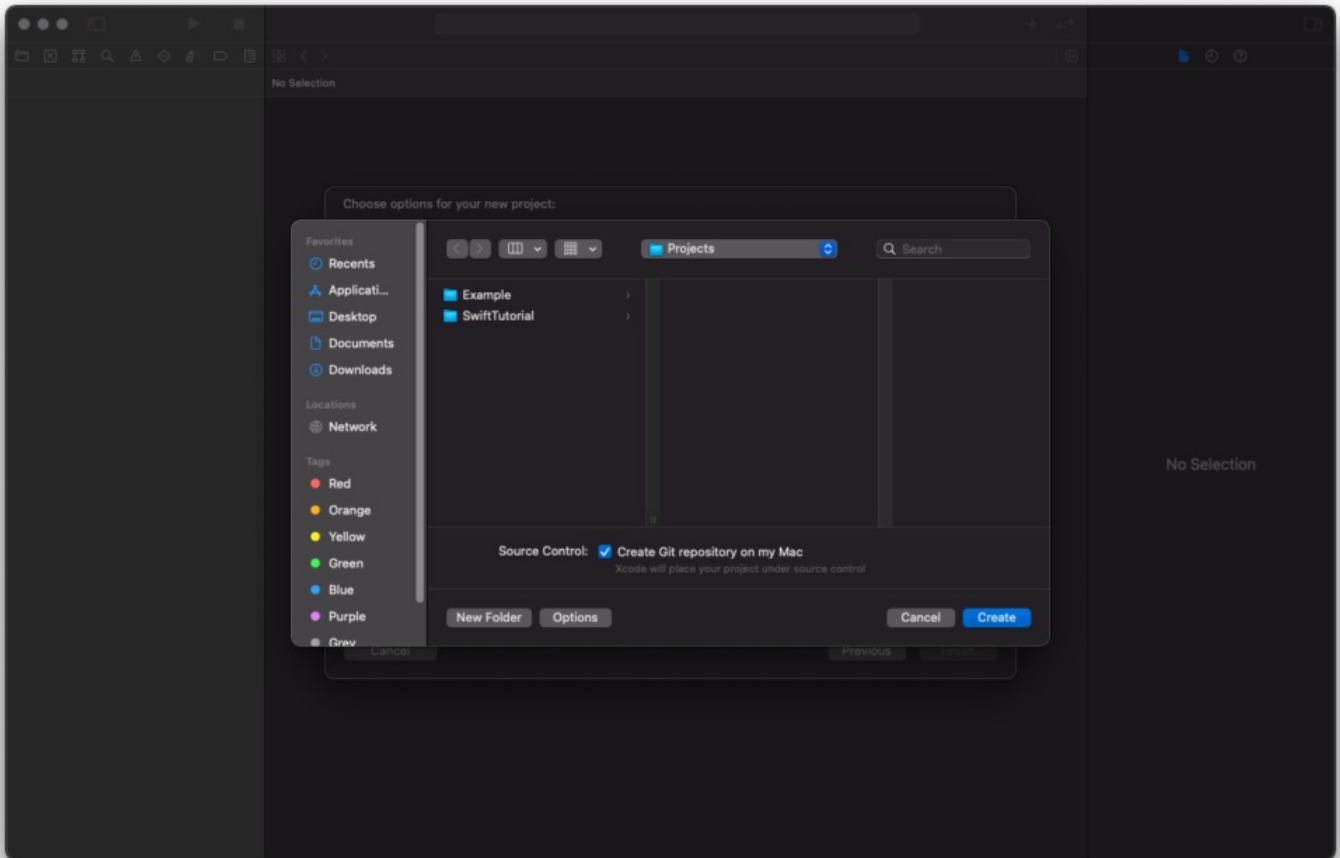
Under **macOS** tab, select **Command Line Tool** template and click on **Next** button.



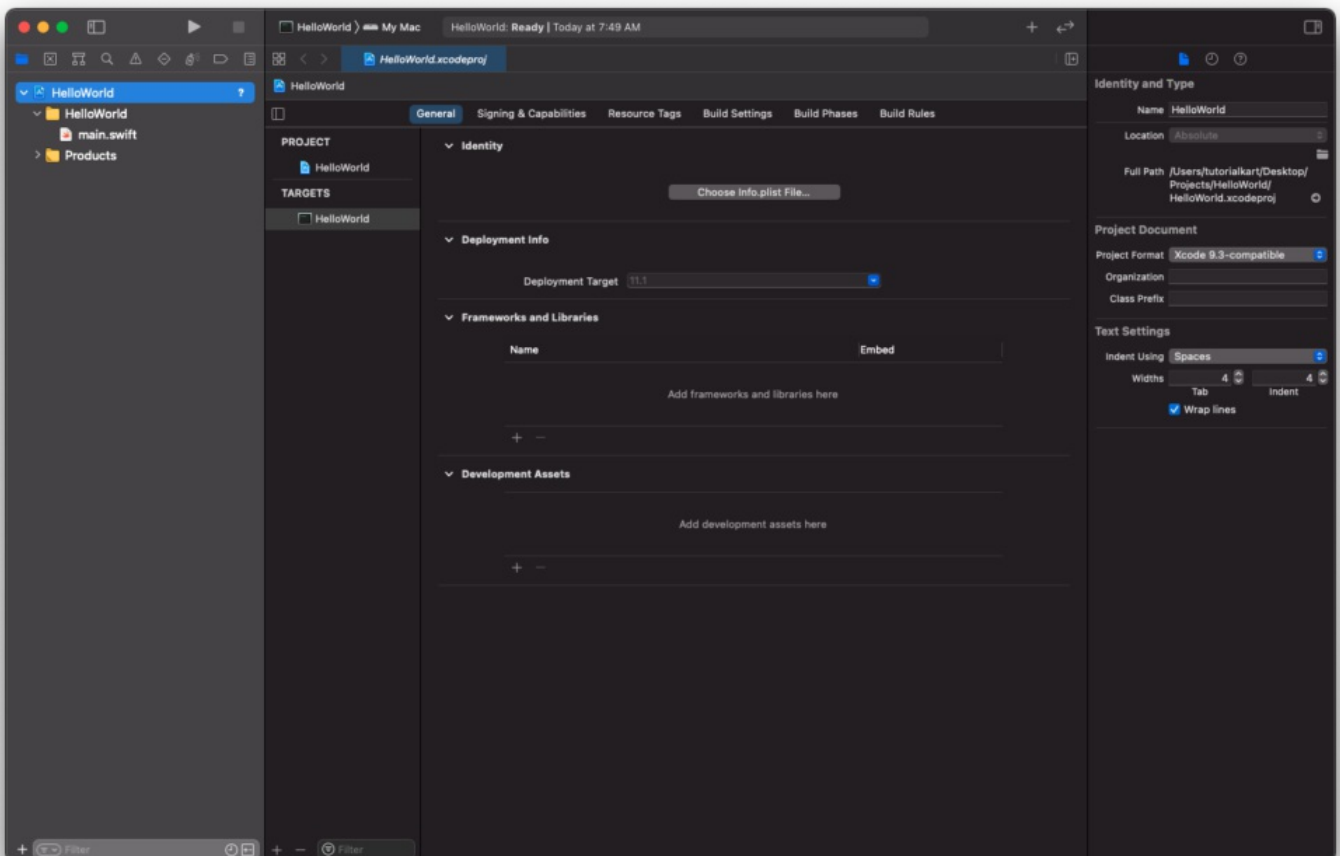
Give a name for the **Product Name**, and click on **Next** button.



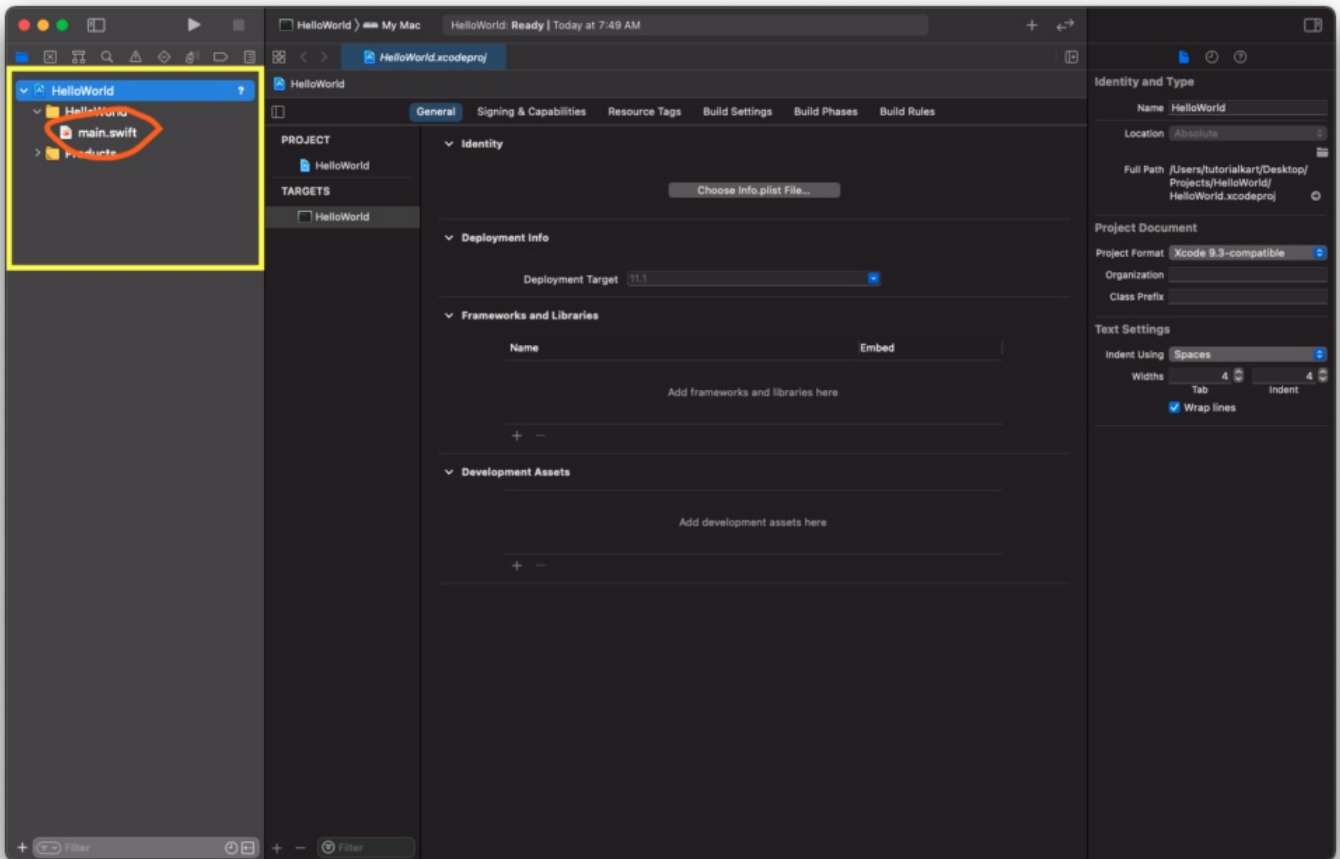
Choose a Project location, and click on **Create** button.



The project is created with all the boiler plate code, to get started.



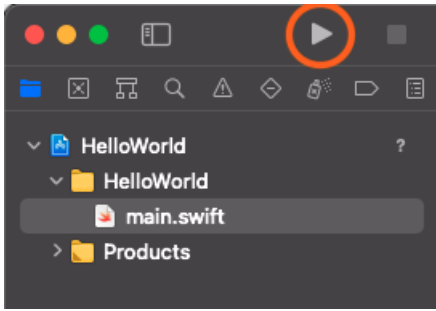
Open **main.swift** file in the **Project navigator**, present in the left panel of the Project window.



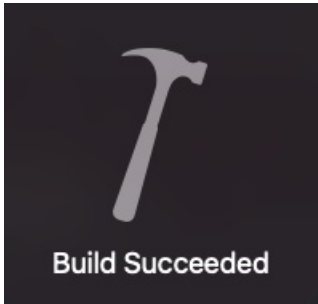
main.swift

```
HelloWorld > My Mac>HelloWorld: Ready | Today at 7:55 AM  
main.swift  
HelloWorld > HelloWorld > main.swift > No Selection  
1 //  
2 // main.swift  
3 // HelloWorld  
4 //  
5 // Created by TUTORIALKART on 05/03/21.  
6 //  
7  
8 import Foundation  
9  
10 print("Hello, World!")  
11  
12
```

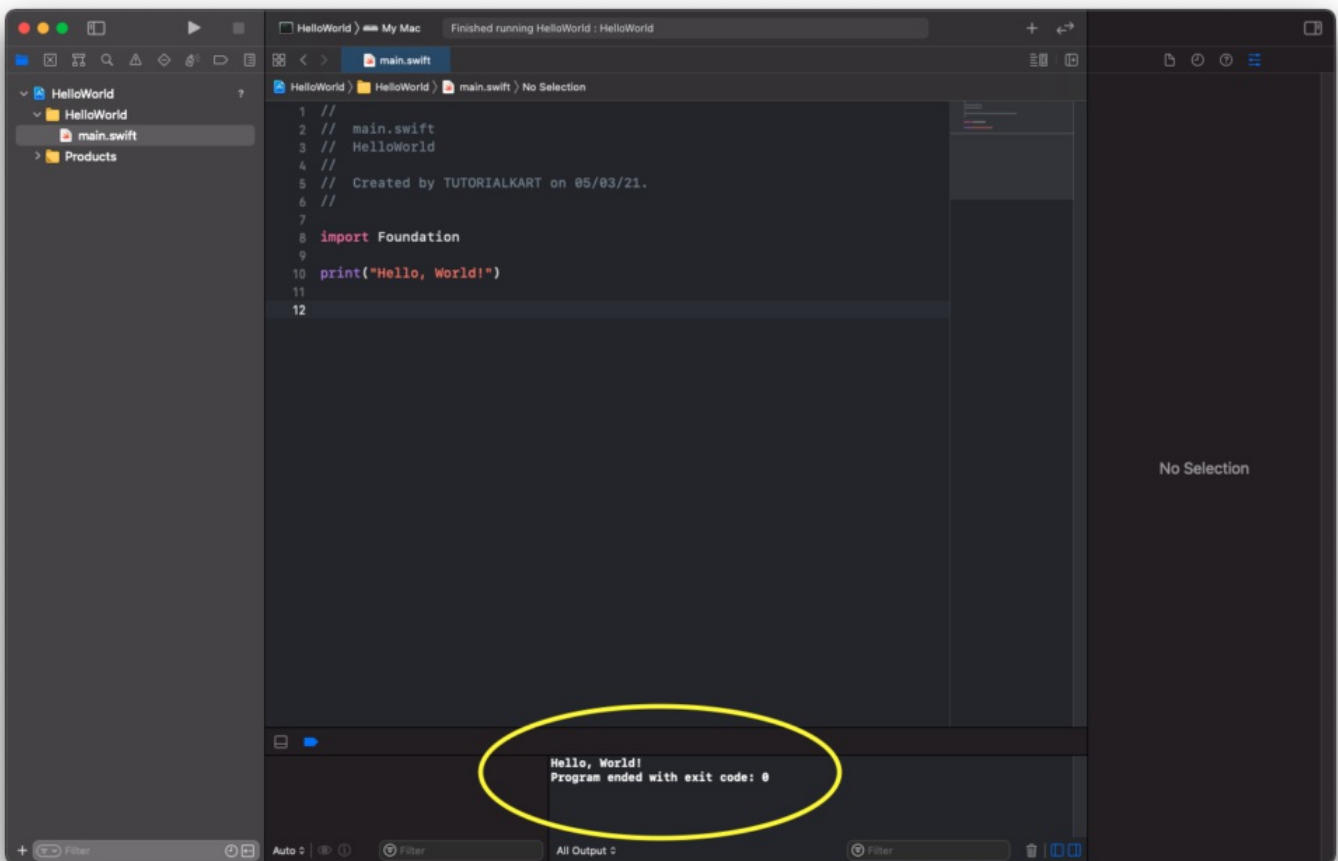
Run this project, by clicking the Run (/Play) button present on the top of Left panel.



The build would be successful, with the following message displayed.



The build is successful, and the program is run. We can see the output in the All output window, as shown in the following screenshot.



We have successfully print the "Hello World" message to output.

Now, let us see what this main.swift program contains.

```
1 //
2 // main.swift
3 // HelloWorld
4 //
5 // Created by TUTORIALKART on 05/03/21.
6 //
```

These first six lines of code are called comments. Comments are those parts of the code that are not executed, but helpful in the readability of the program. Each comment is started with a double forward slash.

```
8 import Foundation
```

import keyword is used to import namespaces that pack a set of symbols or functions. And importing a namespace would give us access to use those symbols or functions.

```
10 print("Hello, World!")
```

print() is a function. A function can have none, one or more parameters and transform them, and may or may not return the result. Here, print() function takes string "Hello, World!" and does not return anything, but prints this string to output.

Conclusion

In this [Swift Tutorial](#), we learned how to print "Hello, World!" message to output.

Swift Tutorial

↳ [Swift Tutorial](#)

↳ [Swift Keywords](#)

↳ [Swift Comments](#)

↳ [Swift If](#)

↳ [Swift If-Else](#)

↳ [Swift For Loop](#)

↳ [Swift While Loop](#)

↳ [Swift forEach](#)

↳ [Swift Repeat While Loop](#)

↳ [Swift Break](#)

↳ [Swift Continue](#)

↳ [Swift Tuple](#)

↳ [Swift Enum](#)

↳ [Swift Structure](#)

Strings

↳ Swift - Substring

↳ Swift - Concatenate Strings

Arrays

↳ Swift Array Initialization

↳ Swift Print Array

↳ Swift Integer Array

↳ Swift append Integer to Array

↳ Swift String Array

↳ Swift append String to Array

↳ Swift Get Array Size - count

↳ Swift Remove an Element from Array

↳ Swift Append / Concatenate Arrays

↳ Swift Check if an Array is Empty

Dictionaries

↳ Swift Dictionary

↳ Swift - Create Dictionary

↳ Swift - Create Dictionary using Arrays

↳ Swift - Iterate through Dictionary

↳ Swift - Get Dictionary Size

↳ Swift - Check if Dictionary is Empty

↳ Swift - Add or Append Element to Dictionary

↳ Swift - Get value using key in Dictionary

↳ Swift - Check if a key is present in Dictionary

↳ Swift - Merge Two Dictionaries

↳ Swift - Convert Dictionary into Arrays of Keys and Values

↳ Swift - Print all Keys in a Dictionary

Sets

↳ Swift Print Set

↳ Swift Get Set Size

↳ Swift Insert Element to Set

↳ Swift Check if Element is present in Set

File Operations

↳ Swift Read Text File

Swift Errors [Solved]

↳ Swift error: return from initializer without initializing all stored properties

↳ Swift – struct error: missing argument labels in call