

## Swift Programming

Swift is a modern programming language created by Apple for iOS, macOS, watchOS, and tvOS development.

It emphasizes safety, performance, and modern syntax.

### Key Swift Features:

- Optionals for handling values safely
- Type inference for cleaner code
- Structs and classes
- Protocols for defining behavior
- SwiftUI for declarative UI development

### Example Swift Code:

```
import SwiftUI

struct ContentView: View {

    var body: some View {

        Text("Hello, Swift!")

        .padding()

    }

}
```