```
11 tixer. 10
     JSON = Java Script Object Notation
     Google search JSON Beautifler = codebeautify.org 1; sonviewer
11 View (ontroller, swift
import UIKit
class View Controller: UI View Controller {
    @18 Outlet week var cadlabel: UILabel!
    I similar ones
    override func view Did Lond () {
          Super, view Did Load ()
                                                                         1/1. Request & session
                                                                           3. Parsing & JSON Socialization
     @ IBAction tunc get Rates (liched ( sender : Ang) &
        let url = URL (string: "http://data.tixer, io/api/latest? access_keg = ....")
         let session = URLSession, shared
                                                   shith completion Handler
         let task = session data Task ( with : url!) { (data, response, error) in
             If error ! = nil &
                 let alert = UIAlert Controller (+1) le "Error", message, error?. Localized Description, prefered Style? UIAlert (ontroller. Style. alert)
                  let okButton = UIA lert Action Ltitle : "OK", style: UIA lert Action. Style. default, hand ler: nil)
                  alert, add Action (ok Button)
                  self. present (alert, animated; true, completion: nil)
                                                                                           11p-list -> App Transport Security Senting
                                                                                                 Allow Arbitrary Loads on Yes
             3 else {
                   if data ! = nil {
                                                                                                  I then can request http request
                        205
                           let ; sonkesponse = try JSONSerialization, ; son Object [ with: Data!, options: JSONSerialization, Reading Options, mutable containers)
                                     as! Dictionary ( String, Any >
                            Dispatch Queue. main, asyncf
                                                                                                            115YNC = one thing at a time
                                 if let rates = | sonResponse ["rates"] as? [string ! Any] &
                                                                                                             ASTNC => two things at one thre
                                      if let cad = rates ["CAD"] as? Double {
                                                                                                             mein
                                                                                                             blogal
                                           self. cad label. text = "CAD: \(cad)"
                                                                                                            11 round the strang
                                       1 similar ones
                                                                                                            = 5 trhy (format: "(AD: 1.2f", cad)
                        3 catch {
                           print ("error")
                        3
                   3
          task resumel)
                                  11 start the task
    3
```

11 Application programming interface

```
11 Face Recognition
  import UIKit
  import Local Authentication
 class ViewController: UIV!ewController {
    @IBOutlet var mylabel: UILabel!
     override tunc view Did Load () {
            super view Did Load ()
     3
     @ IBAction tunc sign In Clicked (sender: Any Object) {
         let auth Context = LA(antext() 11 come with the Local Authentication library
                                                                                              Monvert to error Pointer
         VAY error : NSZIror ?
          if auth Context. can Zvaluate Policy ( . device Owner Authentication With Biometrics, error : & error) &
               anth Context, evaluate Policy (. device Owner Anthentication With Biometrics, localized Reason: "Is it You?") { (Success, error) in
                    ! + success = = true {
                          Dispatch Queue, main. asyncz
                              selt. perform Seque (with I dentifier: "to Second VC", sender: nil)
                     3 else {
                          Dispatch Queue . main . asyn ( ?
                             selt. my label. text = "zrror!"
                     3
                                                                                      HP-list > Face ID Usage Description
                 3
```