Question 1:- How to call api using nsurl session

Ans.

let url = "https://itunes.apple.com/search?term="+searchString URLSession.shared.dataTask(with: URL.init(string: url)!){(data,response,err) in if let responsedata = data{ DispatchQueue.main.async { completion(responsedata) } } }.resume()

Question2:- Consider this code

```
let d = ["john": 23, "james": 24, "vincent": 34, "louis": 29]

let x = d.sort{ $0.1 < $1.1 }.map{ $0.0 }
```

What is the type of x? And what is its value?

Ans:- x is of type [String] and of value ["john", "james", "louis", "vincent"].

Question3:- The following code snippet results in a compile time error:

struct IntStack {

 var items = [Int]()

 func add(x: Int) {

   items.append(x) // Compile time error here.

 }

}

Ans:- Structures are value types. By default, the properties of a value type cannot be modified from within its instance methods.

However, you can optionally allow such modification to occur by declaring the instance methods as 'mutating'; e.g.:

struct IntStack {

 var items = [Int]()

 mutating func add(x: Int) {

   items.append(x) // All good!

```
 }

}
```

Question4:- What will this code print and why?

```swift
var thing = "cars"

let closure = { [thing] in print("I love \(thing)")

}

thing = "airplanes"

closure()
```

Ans:- i love airplanes

Question 5:- How to declare protocol write Example

Ans:

```swift
protocol Greet {

  // blueprint of property

  var name: String { get }

  // blueprint of a method

  func message()

}

// conform class to Greet protocol

class Employee: Greet {

  // implementation of property

  var name = "Perry"
```

```
  // implementation of method

  func message() {

    print("Good Morning", name)

  }

}

var employee1 = Employee()

employee1.message()
```

Question 6: List down three ways in which we can append two arrays in ios Swift.

Let us consider that the two arrays are declared as follows:

```
var firstArray = ["Sonal", "Rahul"]


let secondArray = ["Nawaz", "Riya"]
```

Ans:- Using the method "append(contentsOf:)"- In this method, the contents of the second array are copied into the first array.

firstArray.append(contentsOf: secondArray)

- Using the "+=" operator - In this method also, the contents of the second array are copied into the first array.

firstArray += secondArray

- Appending two arrays by using the "+" operator and adding the result to a new array -

let thirdArray = firstArray + secondArray