Swift Basic 1 Solution

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Create a employee personal information structure and employee professional structure

the properties for personal :

employeeID

name

country(america,india,britain,japan,china)

address

hobbies(optional)

properties for professional

employeeID

name

department(iOS, android, jvm, full stack, web)

branch(america,india,britain,japan,china)

experience

TASKS

1. create a third employee structure that contains the information from both based on common id.

2. write a function that takes the two structure and give me list of all the employee that live in certain country

3. write a function that give me list of all the employee that live in certain department

4. write a function that give me list of all the employee that live in same country and work in the same branch.

5. write a function that return me list of all the employee name that has a hobby and with their experience .

6. write a function that return me list of all the employee name that starts with any "S"

```swift
import UIKit

struct personal
{
    var employeeID: Int
    var name: String
    var country: String
    var address: String
    var hobbies: String?

}

struct professional
{
    var employeeID: Int
    var name: String
    var department: String
    var branch: String
    var experience: Int

}

struct Employee
```

```
{
    var employeeID: Int
    var name: String
    var country: String
    var address: String
    var hobbies: String?
    var department: String
    var branch: String
    var experience: Int
}

var per_array: [personal] = [personal(employeeID: 1, name: "Shreyansh", country: "india",
address: "delhi", hobbies: "chess"),
personal(employeeID: 2, name: "Shashank", country: "japan", address: "noida"),
personal(employeeID: 3, name: "prince", country: "china", address: "modinagar", hobbies:
"sleeping"), personal(employeeID: 4, name: "seth", country: "britain", address: "inlungwa",
hobbies: "english"), personal(employeeID: 5, name: "saurav", country: "america", address:
"merrut")]


var pro_array: [professional] = [professional(employeeID: 1, name: "shreyansh", department:
"ios", branch: "cse", experience: 1), professional(employeeID: 2, name: "shashank", department:
"android", branch: "cse", experience: 2), professional(employeeID: 4, name: "seth", department:
"inlungwa", branch: "it", experience: 5)]


var sizeOfPer = per_array.endIndex - 1
var sizeOfPro = pro_array.endIndex - 1

var employee = [Employee]()

//que 1 -> create a third employee structure that contains the information from both based on
common id.


for i in 0...sizeOfPer{
    for j in 0...sizeOfPro{
        if(per_array[i].employeeID == pro_array[j].employeeID)
        {
            employee.append(Employee(employeeID: per_array[i].employeeID, name:
per_array[i].name, country: per_array[i].country, address: per_array[i].address, hobbies:
per_array[i].hobbies, department: pro_array[j].department, branch: pro_array[j].branch,
experience: pro_array[j].experience))
```

```
        }
    }
}
```

//que 2 -> write a function that takes the two structure and give me list of all the employee that live in certain country

```
func sameCountry(fisrt: [personal], sec: [professional])
{
    for i in 0...sizeOfPer
    {
        for j in 0...sizeOfPro
        {
            if(fisrt[i].country == "india" && fisrt[i].employeeID == sec[j].employeeID)
            {
                print(fisrt[i])
                print(sec[j])

            }

        }
    }
}
```

sameCountry(fisrt: per_array, sec: pro_array)

//que 3 -> write a function that give me list of all the employee that live in certain department

```
func sameDept(fisrt: [personal], sec: [professional])
{
    for i in 0...sizeOfPer
    {
        for j in 0...sizeOfPro
        {
            if(sec[j].department == "ios" && fisrt[i].employeeID == sec[j].employeeID)
            {
                print(fisrt[i])
                print(sec[j])

            }
```

```
        }
    }
}

sameDept(fisrt: per_array, sec: pro_array)
```

//que 4 -> write a function that give me list of all the employee that live in same country and work in the same branch.

```
var sizeOfEmp = employee.endIndex - 1

func same(first: [personal], sec: [professional])
{
    for i in 0...sizeOfPer
    {
        for j in 0...sizeOfPro
        {
            if(first[i].country == "india" && sec[j].branch == "cse" && first[i].employeeID ==
sec[j].employeeID)
            {
                print(first[i])
                print(sec[j])

            }

        }
    }
}

same(first: per_array, sec: pro_array)
```

//que 5 -> write a function that return me list of all the employee name that has a hobby and with their experience

```
func showHobbyExp(First: [personal], sec: [professional])
{
    for i in 0...sizeOfPer{
        for j in 0...sizeOfPro
        {
```

```
        if(First[i].hobbies != nil && sec[j].experience > 0 && First[i].employeeID ==
sec[j].employeeID )
        {
            print(First[i])
            print(sec[j])
        }
    }
  }
}

showHobbyExp(First: per_array, sec: pro_array)


//que 6 -> write a function that return me list of all the employee name that starts with any "S"

//func showWithS(First: [personal], sec: [professional])
//{
//   for i in 0...sizeOfPer{
//      for j in 0...sizeOfPro
//      {
//         if(First[i].name[0] == "s" && First[i].employeeID == sec[j].employeeID )
//         {
//            print(First[i])
//            print(sec[j])
//         }
//      }
//   }
//}
//
```