

## Introduction to Swift Exercise 2 Abhishek Maurya



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)

experienced
```

## TASKS:

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

```
struct Employee {
      var employeeID: Int
      var name: String
      var department: String
      var branch: String
      var experience: Int
      var address: String
      var country: String
      var hobbies: String?
  }
  //Adding entries in Employee structure
  var empArray: [Employee] = []
  for personalEmp in personalArray {
      for professionalEmp in professionalArray {
          if (personalEmp.employeeID == professionalEmp.employeeID) {
              empArray.append(Employee(employeeID:
  personalEmp.employeeID, name: personalEmp.name, department:
  professionalEmp.department, branch: professionalEmp.branch,
  experience: professionalEmp.experience, address: personalEmp.address,
  country: personalEmp.country, hobbies: personalEmp.hobbies))
```



```
}

print("Answer 1:")
for index in empArray {
    print(index)
}
```

- 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
  - func answer3(department: String) -> String{
     print("\nAnswer 3:")
     for emp in empArray {
     if (emp.department==department)
     {
     print(emp)
     }
     }
     return department
    }
    answer3(department: "iOS")

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

```
func answer4(ans: String) -> String{
    print(ans)
    for emp1 in empArray {
        for emp2 in empArray {
            if (emp1.country == emp2.branch) {
                print(emp1)
            }
        }
}
```



```
}
  return ans
}
answer4(ans: "\nAnswer 4:")
```

- 5. write a function that return me list of all the employee name that has a hobby and with their experience.
  - func answer5(ans :String) -> String{
     print(ans)
     for emp in empArray {
     print("ID: \(emp.employeeID), Name: \(emp.name), Hobbies: \(emp.hobbies ?? "NA"), Experience: \(emp.experience)")
     }
     return ans
    }
    answer5(ans: "\nAnswer 5:")
- 6. write a function that return me list of all the employee name that starts with any "S"
  - func answer6(prefix: String) -> String{
     print("\nAnswer6")
     for emp in empArray {
     if (emp.name.prefix(1)==prefix) {
     print(emp)
     }
     }
     return prefix
    }
    answer6(prefix: "S")