

Scala Programming

(13/09/2023)

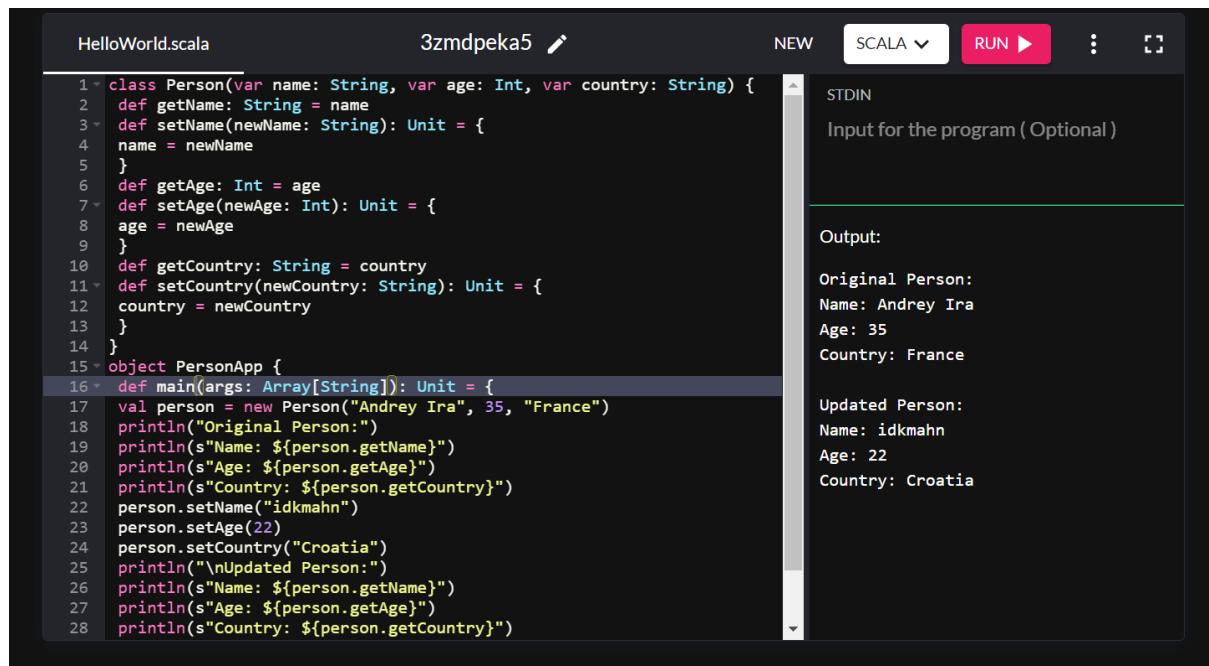
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Question:

Write a Scala program that creates a class called Person with properties like name, age and country. Implement methods to get and set properties.

Code:

```
class Person(var name: String, var age: Int, var country: String) {  
  def getName: String = name  
  def setName(newName: String): Unit = {  
    name = newName  
  }  
  def getAge: Int = age  
  def setAge(newAge: Int): Unit = {  
    age = newAge  
  }  
  def getCountry: String = country  
  def setCountry(newCountry: String): Unit = {  
    country = newCountry  
  }  
}  
  
object PersonApp {  
  def main(args: Array[String]): Unit = {  
    val person = new Person("Andrey Ira", 35, "France")  
    println("Original Person:")  
    println(s"Name: ${person.getName}")  
    println(s"Age: ${person.getAge}")  
    println(s"Country: ${person.getCountry}")  
    person.setName("idkmahn")  
    person.setAge(22)  
    person.setCountry("Croatia")  
    println("\nUpdated Person:")  
    println(s"Name: ${person.getName}")  
    println(s"Age: ${person.getAge}")  
    println(s"Country: ${person.getCountry}")  
  }  
}
```



```
1 class Person(var name: String, var age: Int, var country: String) {
2   def getName: String = name
3   def setName(newName: String): Unit = {
4     name = newName
5   }
6   def getAge: Int = age
7   def setAge(newAge: Int): Unit = {
8     age = newAge
9   }
10  def getCountry: String = country
11  def setCountry(newCountry: String): Unit = {
12    country = newCountry
13  }
14 }
15 object PersonApp {
16   def main(args: Array[String]): Unit = {
17     val person = new Person("Andrey Ira", 35, "France")
18     println("Original Person:")
19     println(s"Name: ${person.getName}")
20     println(s"Age: ${person.getAge}")
21     println(s"Country: ${person.getCountry}")
22     person.setName("idkmahn")
23     person.setAge(22)
24     person.setCountry("Croatia")
25     println("\nUpdated Person:")
26     println(s"Name: ${person.getName}")
27     println(s"Age: ${person.getAge}")
28     println(s"Country: ${person.getCountry}")
29   }
30 }
```

Output:

Original Person:
Name: Andrey Ira
Age: 35
Country: France

Updated Person:
Name: idkmahn
Age: 22
Country: Croatia

In this example, object 'person' is an instance of class "Person". A person has properties like name, age, country etc. In the class person, using getter functions, we are collecting the values of the properties. Using setter functions, these values are set to respective variables. The values we passed to the class under the name of an object is printed out.

Gtithub link:

<https://github.com/niranjana628/Scala-Programming>