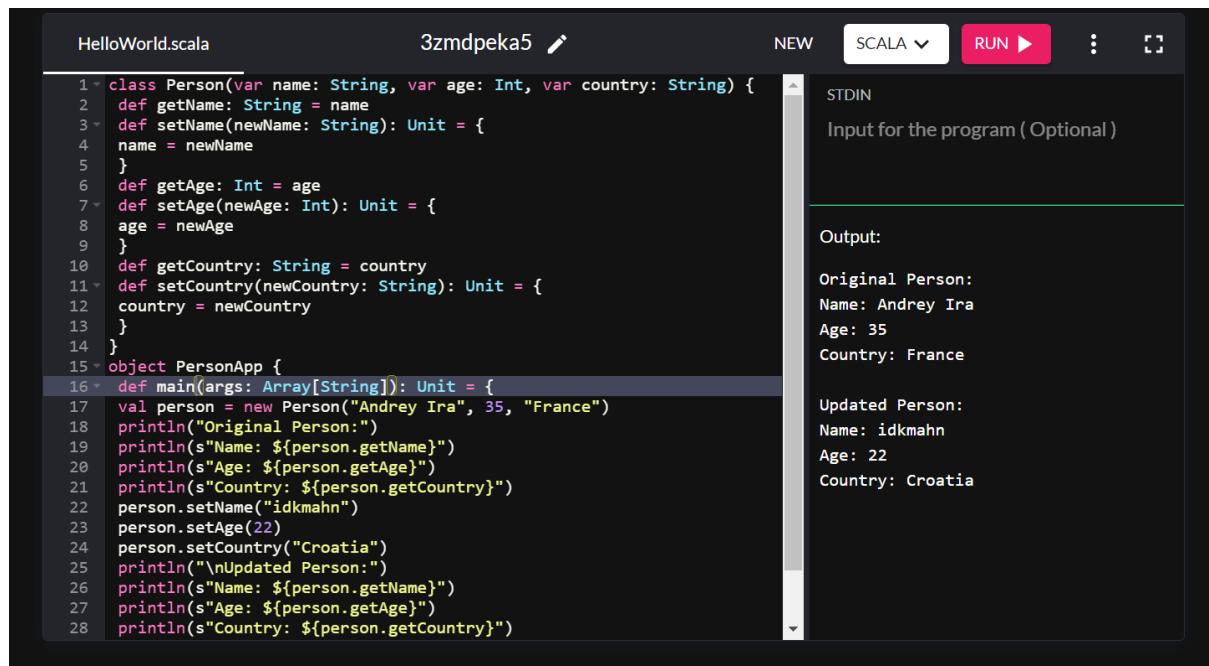# Scala Programming

(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:

```scala
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}")
 }
}
```

```scala
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}")
```

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.

Gtihub link:

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