## SCALA PROGRAMMING

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Ques - 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 Person1 {
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("Lior Daniela")
person.setAge(30)
person.setCountry("Canada")
println("\nUpdated Person:")
println(s"Name: ${person.getName}")
println(s"Age: ${person.getAge}")
println(s"Country: ${person.getCountry}")
}
}
```

## **OUTPUT:**

Original Person: Name: Andrey Ira

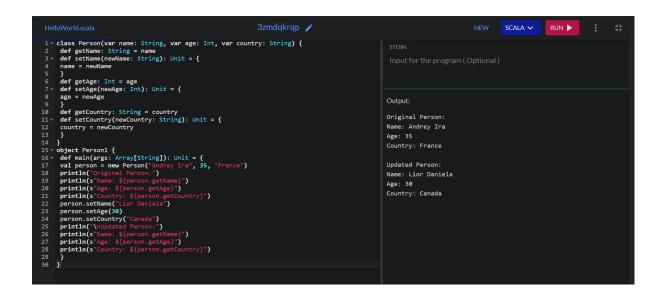
Age: 35

Country: France

Updated Person: Name: Lior Daniela

Age: 30

Country: Canada



The following code will take the input from the user regarding the new updated details of the person. And also new property is added i.e Gender.

If the user enters invalid age then it will execute the try catch block to avoid getting errors in the code.

## CODE:

import scala.io.StdIn

```
class Person(var name: String, var age: Int, var country: String, var gender: 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
 def getGender: String = gender
 def setGender(newGender: String): Unit = {
  gender = newGender
}
}
object Person1 {
 def main(args: Array[String]): Unit = {
  val name = StdIn.readLine("Enter the name of the person: ")
  val person = new Person(name, 35, "France", "Male")
  println("\nOriginal Person:")
  println(s"Name: ${person.getName}")
  println(s"Age: ${person.getAge}")
  println(s"Country: ${person.getCountry}")
  println(s"Gender: ${person.getGender}")
  val newName = StdIn.readLine("Enter the new name of the person: ")
  person.setName(newName)
  // Use try-catch to handle potential NumberFormatException
  try {
   val newAge = StdIn.readInt()
   person.setAge(newAge)
  } catch {
   case _: NumberFormatException => println("Invalid age input. Age not updated.")
  }
  val newCountry = StdIn.readLine("Enter the new Country for the person: ")
  person.setCountry(newCountry)
  val newGender = StdIn.readLine("Enter the new gender of the person: ")
  person.setGender(newGender)
  println("\nUpdated Person:")
  println(s"Name: ${person.getName}")
  println(s"Age: ${person.getAge}")
  println(s"Country: ${person.getCountry}")
  println(s"Gender: ${person.getGender}")
}
```

```
NEW SCALA ✓ RUN ►
import scala.io.StdIn
v class Person(var name: String, var age: Int, var country: String, var gender: String) {
def getName: String = name
    def setName(newName: String): Unit = {
    name = newName
                                                                                                                                                                        John
                                                                                                                                                                       Roy
23
                                                                                                                                                                                                                                                                               G
        | name = newName
|}
| def getAge: Int = age
|def setAge(newAge: Int): Unit = {
| age = newAge
                                                                                                                                                                      Output:
        | age = newAge

}

def getCountry: String = country

def setCountry(newCountry: String): Unit = {

| country = newCountry
                                                                                                                                                                     Enter the name of the person: Original Person:
                                                                                                                                                                     Name: John
Age: 35
        COUNTY;
}
def getGender: String = gender
def setGender(newGender: String): Unit = {
gender = newGender

                                                                                                                                                                      Gender: Male
                                                                                                                                                                      Enter the new name of the person: Enter the new Country for the per
                                                                                                                                                                     Updated Person:
    object Person1 {
   def main(args: Array[String]): Unit = {
     val name = StdIn.readLine("Enter the name of the person: ")
   val person = new Person(name, 35, "France", "Male")
                                                                                                                                                                     Age: 23
                                                                                                                                                                      Gender: Male
            val newName = StdIn.readLine("Enter the
person.setName(newName)
            // Use try-catch to handle potential NumberFormatException try {
```

```
try {
    val newAge = StdIn.readInt()
    person.setAge(newAge)
} catch {
    case _: NumberFormatException => println("Invalid age input. Age not updated.")
}

val newCountry = StdIn.readLine("Enter the new Country for the person: ")
    person.setCountry(newCountry)

val newGender = StdIn.readLine("Enter the new gender of the person: ")
    person.setGender(newGender)

println("\nUpdated Person:")
    println(s"Name: ${person.getName}")
    println(s"Age: ${person.getAge}")
    println(s"Country: ${person.getCountry}")
    println(s"Gender: ${person.getGender}")
}
```