

LAB MANUAL

PROBLEM STATEMENT 11.

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22BTRAD007

GUTHUB: <https://github.com/avaniskrishna/ScalaProgramming>

- 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("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}")

}

}

```

HelloWorld.scala
22btrad007_1309
NEW
SCALA
RUN

```

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
16 object PersonApp {
17   def main(args: Array[String]): Unit = {
18     val person = new Person("Andrey Ira", 35, "France")
19
20     println("Original Person:")
21     println(s"Name: ${person.getName}")
22     println(s"Age: ${person.getAge}")
23     println(s"Country: ${person.getCountry}")
24     person.setName("Lior Daniela")
25     person.setAge(30)
26   }
27 }

```

STDIN
Input for the program (Optional)

Output:

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

Updated Person:
Name: Lior Daniela
Age: 30
Country: Canada

```
HelloWorld.scala 22btrad007_1309 NEW SCALA RUN
```

```
9   age = newAge
10
11 }
12 def getCountry: String = country
13 def setCountry(newCountry: String): Unit = {
14     country = newCountry
15 }
16 }
17 }
18 }
19 object PersonApp {
20     def main(args: Array[String]): Unit = {
21         val person = new Person("Andrey Ira", 35, "France")
22
23         println("Original Person:")
24         println(s"Name: ${person.getName}")
25         println(s"Age: ${person.getAge}")
26         println(s"Country: ${person.getCountry}")
27         person.setName("Lior Daniela")
28         person.setAge(30)
29         person.setCountry("Canada")
30         println("\nUpdated Person:")
31         println(s"Name: ${person.getName}")
32         println(s"Age: ${person.getAge}")
33         println(s"Country: ${person.getCountry}")
34     }
35 }
36 }
```

STDIN

Input for the program (Optional)

Output:

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

Updated Person:
Name: Lior Daniela
Age: 30
Country: Canada

OUTPUT:

Output:

Original Person:

Name: Andrey Ira

Age: 35

Country: France

Updated Person:

Name: Lior Daniela

Age: 30

Country: Canada

```
HelloWorld.scala 22btrad007_1309
9   age = newAge
10  }
11  }
12  def getCountry: String = country
13  def setCountry(newCountry: String): Unit = {
14    country = newCountry
15  }
16  }
17  }
18  }
19  object PersonApp {
20  def main(args: Array[String]): Unit = {
21    val person = new Person("Dia", 25, "Canada")
22
23    println("Original Person:")
24    println(s"Name: ${person.getName}")
25    println(s"Age: ${person.getAge}")
26    println(s"Country: ${person.getCountry}")
27    person.setName("Avani Krishna")
28    person.setAge(19)
29    person.setCountry("India")
30    println("\nUpdated Person:")
31    println(s"Name: ${person.getName}")
32    println(s"Age: ${person.getAge}")
33    println(s"Country: ${person.getCountry}")
34  }
35  }
36  }
```

STDIN
Input for the program (Optional)

Output:

Original Person:
Name: Dia
Age: 25
Country: Canada

Updated Person:
Name: Avani Krishna
Age: 19
Country: India

MODIFICATION:

```
class Person(var name: String, var age: Int, var country: String, var language: 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 getLanguage: String = language
```

```
    def setLanguage(newLanguage: String): Unit = {
```

```
        language = newLanguage
```

```
}  
}  
object PersonApp {  
  def main(args: Array[String]): Unit = {  
    val person = new Person("Dia", 25, "Canada", "French")  
  
    println("Original Person:")  
    println(s"Name: ${person.getName}")  
    println(s"Age: ${person.getAge}")  
    println(s"Country: ${person.getCountry}")  
    println(s"Language: ${person.getLanguage}")  
    person.setName("Avani Krishna")  
    person.setAge(19)  
    person.setCountry("India")  
    person.setLanguage("Hindi")  
    println("\nUpdated Person:")  
    println(s"Name: ${person.getName}")  
    println(s"Age: ${person.getAge}")  
    println(s"Country: ${person.getCountry}")  
    println(s"Language: ${person.getLanguage}")  
  
  }  
}
```