LAB-16

ABHINANDAN SINGH PARMAR

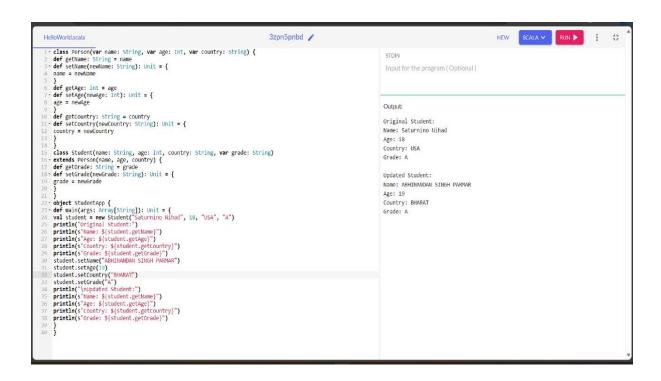
22BTRAD001

```
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 HelloWorld.scala
                                                                                                                                                                                                      NEW
                                                                                                                                                                                                                      SCALA 🗸
  1 * class Person(var name: String, var age: Int,var marks: Int) {
2  def getName: String = name
  def setName(newName: String): Unit = {
  name = newName }
                                                                                                                                                                      Input for the program (Optional)
  5 def getAge: Int = age
6 * def setAge(newAge: Int): Unit = {
  7 age = newAge }
8 def getMarks: Int = marks
                                                                                                                                                                    Output:
  9 - def setMarks(newMarks: Int): Unit = {
10 marks= newMarks }
marks= newMarks }

1  }

1  class Student(name: String, age: Int,marks: Int, var grade: String)
13  vextends Person(name,age,marks) {
    def getGrade: String = grade
    tsvdefsetGrade(newGrade: String): Unit = {
        grade = newGrade
    }
}

                                                                                                                                                                    Original Student:
                                                                                                                                                                    Name: Saturnino Nihad
                                                                                                                                                                    Age: 18
                                                                                                                                                                    Marks: 86
                                                                                                                                                                    Grade: B
18  object StudentApp {
19   def main(args: Array[String]): Unit = {
20   val student = new Student("Saturnino Nihad", 18,86,"B")
21  println("Original Student:")
22  println(s"Name: ${student.getName}")
23  println(s"Ges: ${student.getAge}")
24  println(s"Marks: ${student.getMarks}")
25  println(s"Grade: ${student.getGrade}")
26  student.setName("ABHINANDAN SINGH PARMAR")
27  student.setNage(19)
18 → object StudentApp {
                                                                                                                                                                    Undated Student:
                                                                                                                                                                    Name: ABHINANDAN SINGH PARMAR
                                                                                                                                                                    Age: 19
                                                                                                                                                                    Marks: 96
                                                                                                                                                                    Grade: A
        student.setAge(19)
        student.setMarks(96)
student.setGrade("A")
        println("\nUpdated Student:")
println(s"Name: ${student.get}
```



Code:

```
class Person(var name: String, var age: Int, var marks: Int) {
def getName: String = name
def setName(newName: String): Unit = {
name = newName }
def getAge: Int = age
def setAge(newAge: Int): Unit = {
age = newAge }
def getMarks: Int = marks
def setMarks(newMarks: Int): Unit = {
marks= newMarks }
}
class Student(name: String, age: Int, marks: Int, var grade: String)
extends Person(name,age,marks) {
def getGrade: String = grade
def setGrade(newGrade: String): Unit = {
grade = newGrade
}}
object StudentApp {
def main(args: Array[String]): Unit = {
val student = new Student("Saturnino Nihad", 18,86,"B")
println("Original Student:")
println(s"Name: ${student.getName}")
println(s"Age: ${student.getAge}")
println(s"Marks: ${student.getMarks}")
println(s"Grade: ${student.getGrade}")
```

```
student.setName("ABHINANDAN SINGH PARMAR")
student.setAge(19)
student.setMarks(96)
student.setGrade("A")
println("\nUpdated Student:")
println(s"Name: ${student.getName}")
println(s"Age: ${student.getAge}")
println(s"Marks: ${student.getMarks}")
println(s"Grade: ${student.getGrade}")
}}
```

OUTPUT

Original Student:

Name: Saturnino Nihad

Age: 18

Marks: 86

Grade: B

Updated Student:

Name: ABHINANDAN SINGH PARMAR

Age: 19

Marks: 96

Grade: A