

ASSIGNMENT15.1

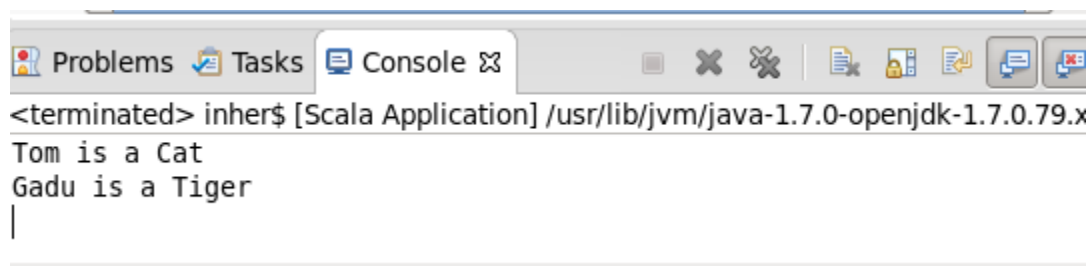
1. Write a simple program to show inheritance in scala.

```
abstract class Parent(name:String)//parent class
{
  //functions of parent class
  def statement = name + " is a " + typeOfAnimal
  def typeOfAnimal: String
}
//class cat extends parent class
class Cat(name:String) extends Parent(name){
  override def typeOfAnimal = "Cat"
}
//class Tiger extends parent class
class Tiger(name:String) extends Parent(name){
  override def typeOfAnimal = "Tiger"
}
//object of main class
object inher {
  def main(args:Array[String])
  {
    var obj1=new Cat("Tom")//object of class cat
    println(obj1.statement)
    var obj2=new Tiger("Gadu")//object of class tiger
    println(obj2.statement)
  }
}
```

OutPut

Tom is a Cat
Gadu is a Tiger

ScreenShots



2. Write a simple program to show multiple inheritance in scala.

```
//multiple inheritance in scala via trait
trait One
{
```

```

def show() //function show
{
  println("class one")
}
def displayone()
{
  println("class one normal method")
}
}
trait Two extends One
{
  override def show() //function overriding
  {
    println("class two")
  }
  def displaytwo()
  {
    println("class two normal method")
  }
}
//class four extends two trait and inheritance its features
class four extends One with Two //multiple inheritance

object MulInher {
  def main(args:Array[String])
  {
    var obj=new four() //object of the class four
    obj.show() //calling show it will call show in trait two
    obj.displayone()
    obj.displaytwo()
  }
}

```

OutPut

```

class two
class one normal method
class two normal method

```

Screenshots

