BD handson 3 - Scala

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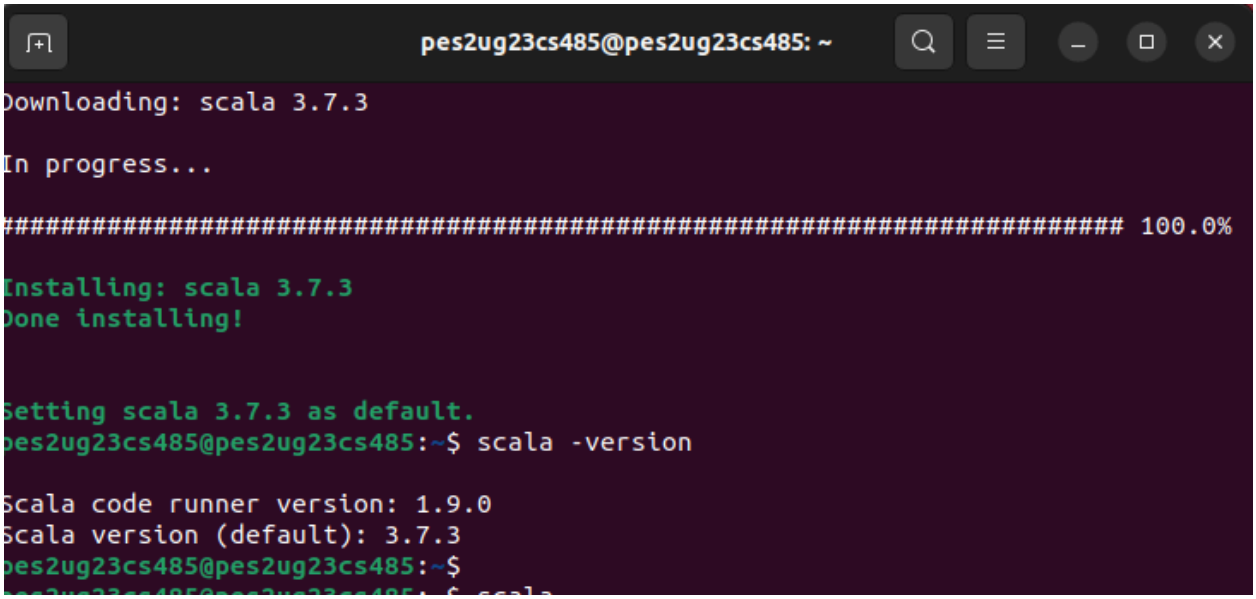
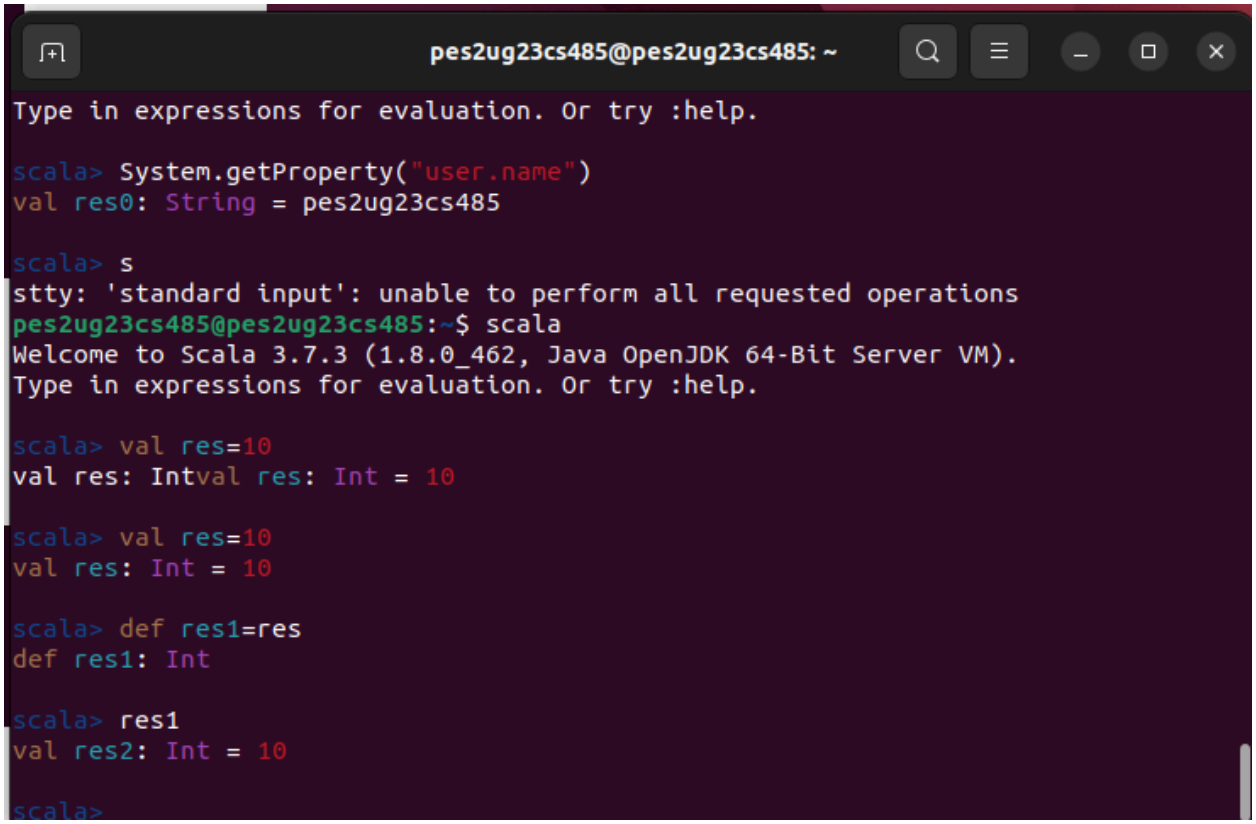
Class: 5H

1) Scala version

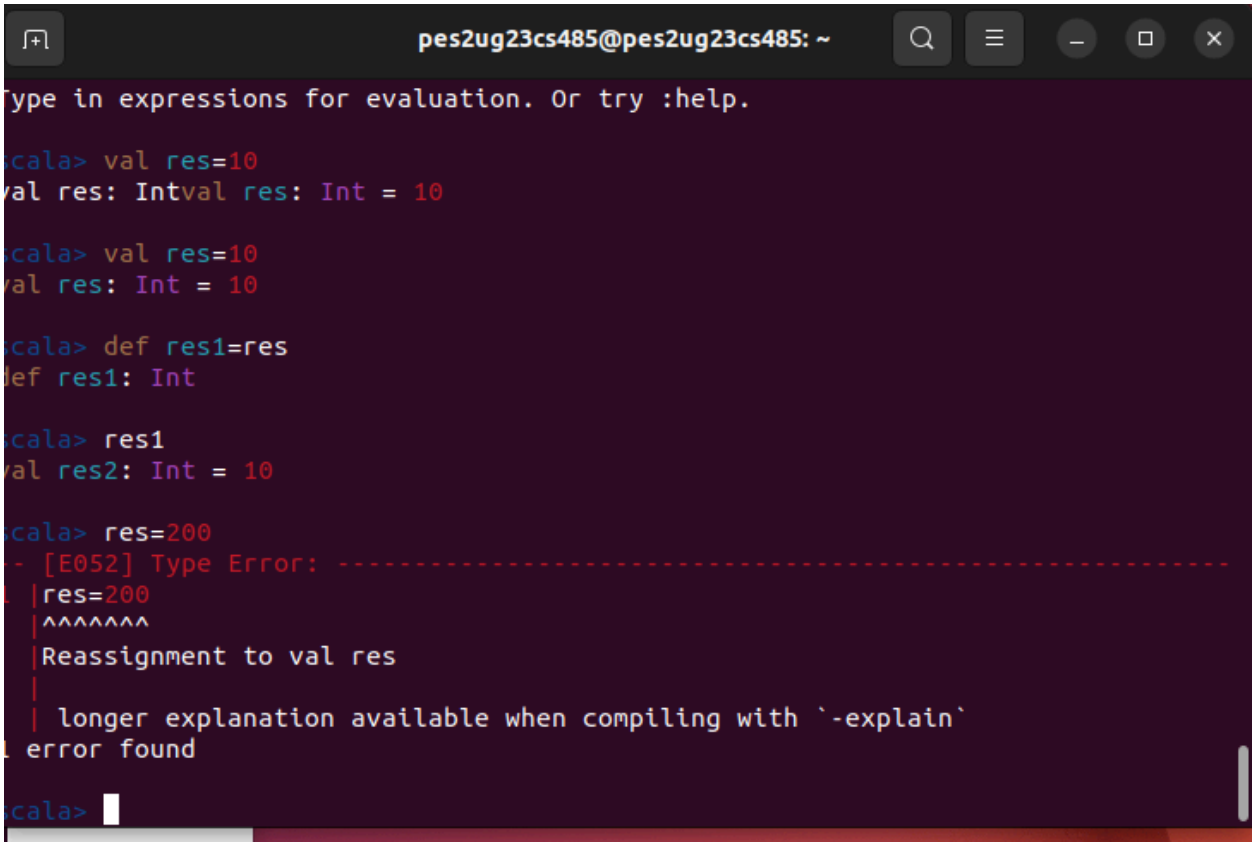


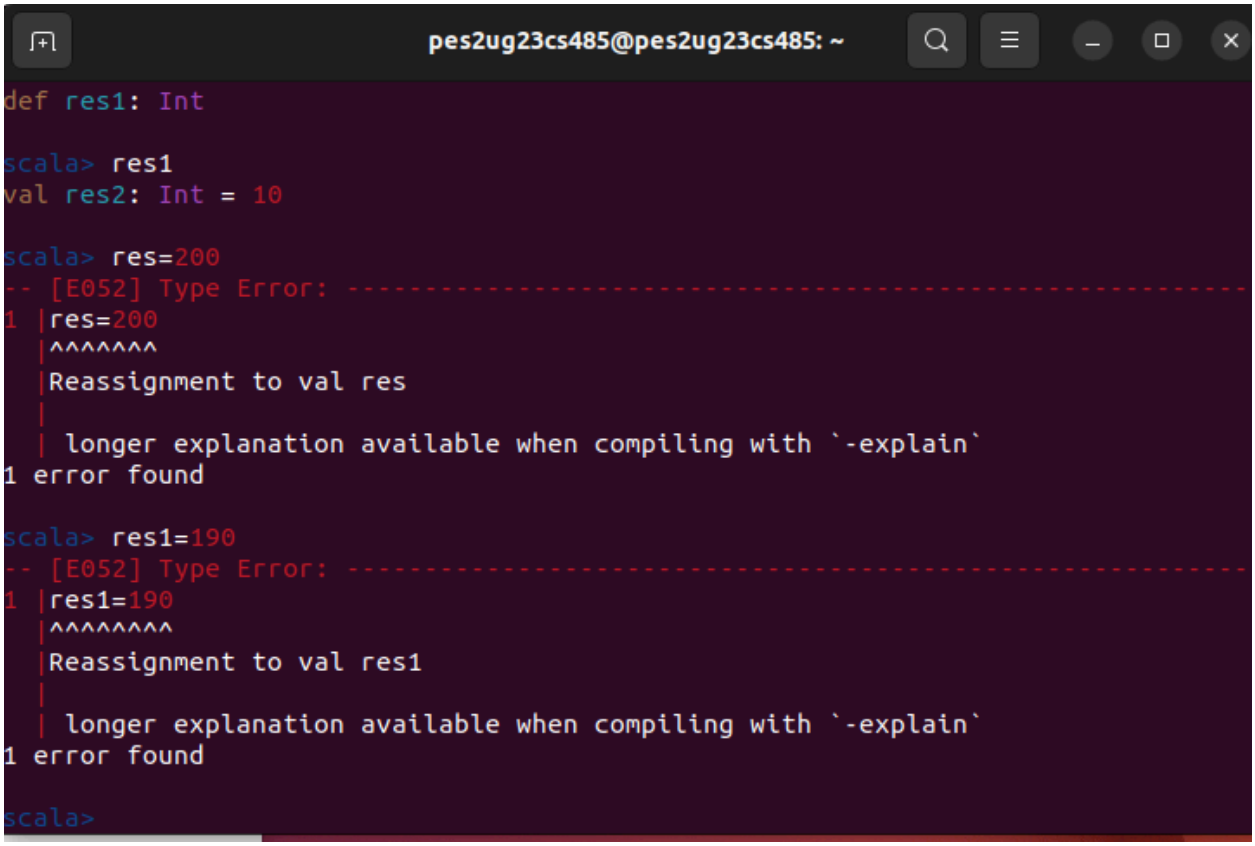
2) String

3) Constants

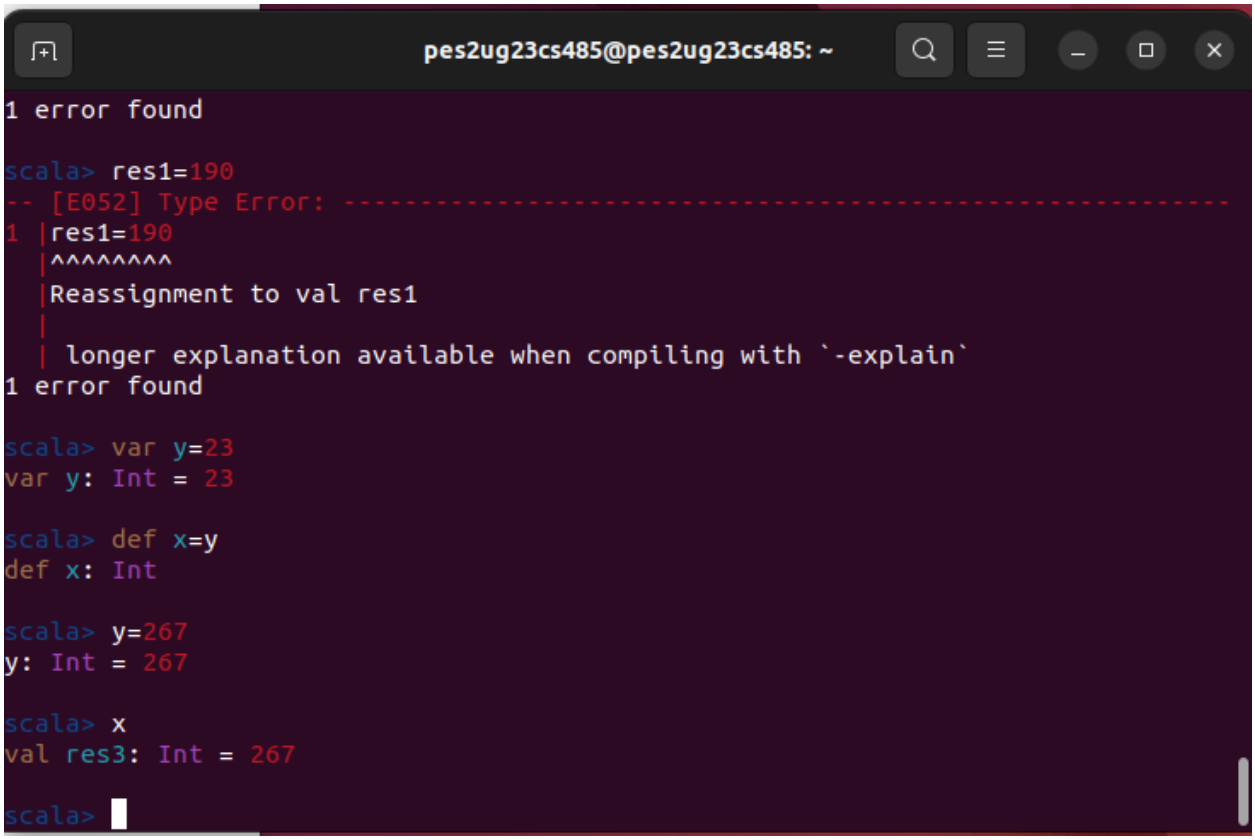


4) Constants can’t be reassigned

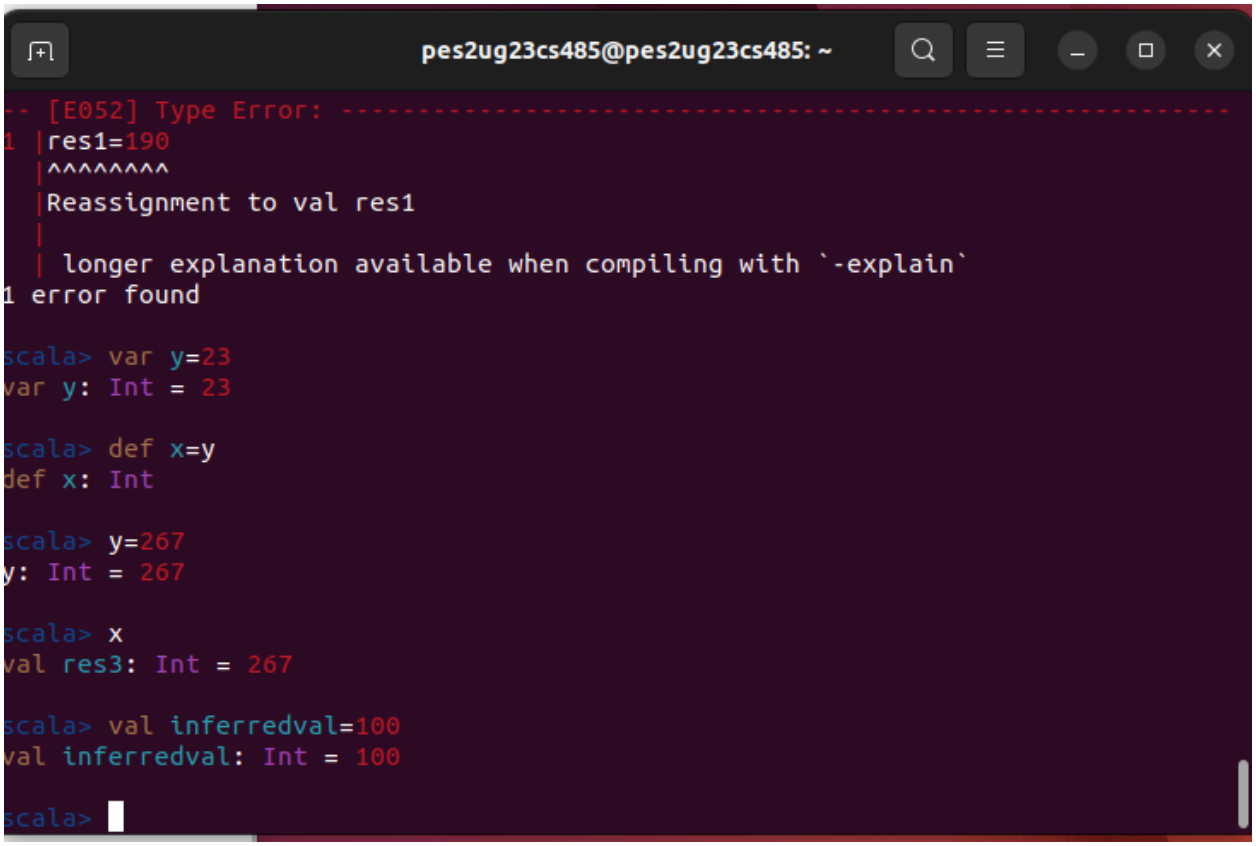

pes2ug23cs485@pes2ug23cs485: ~
Type in expressions for evaluation. Or try :help.
scala> val res=10
val res: Intval res: Int = 10
scala> val res=10
val res: Int = 10
scala> def res1=res
def res1: Int
scala> res1
val res2: Int = 10
scala> res=200
-- [E052] Type Error: ----------
1 |res=200
|^^^^^^^
|Reassignment to val res
|
| longer explanation available when compiling with `-explain`
1 error found
scala>

5) 

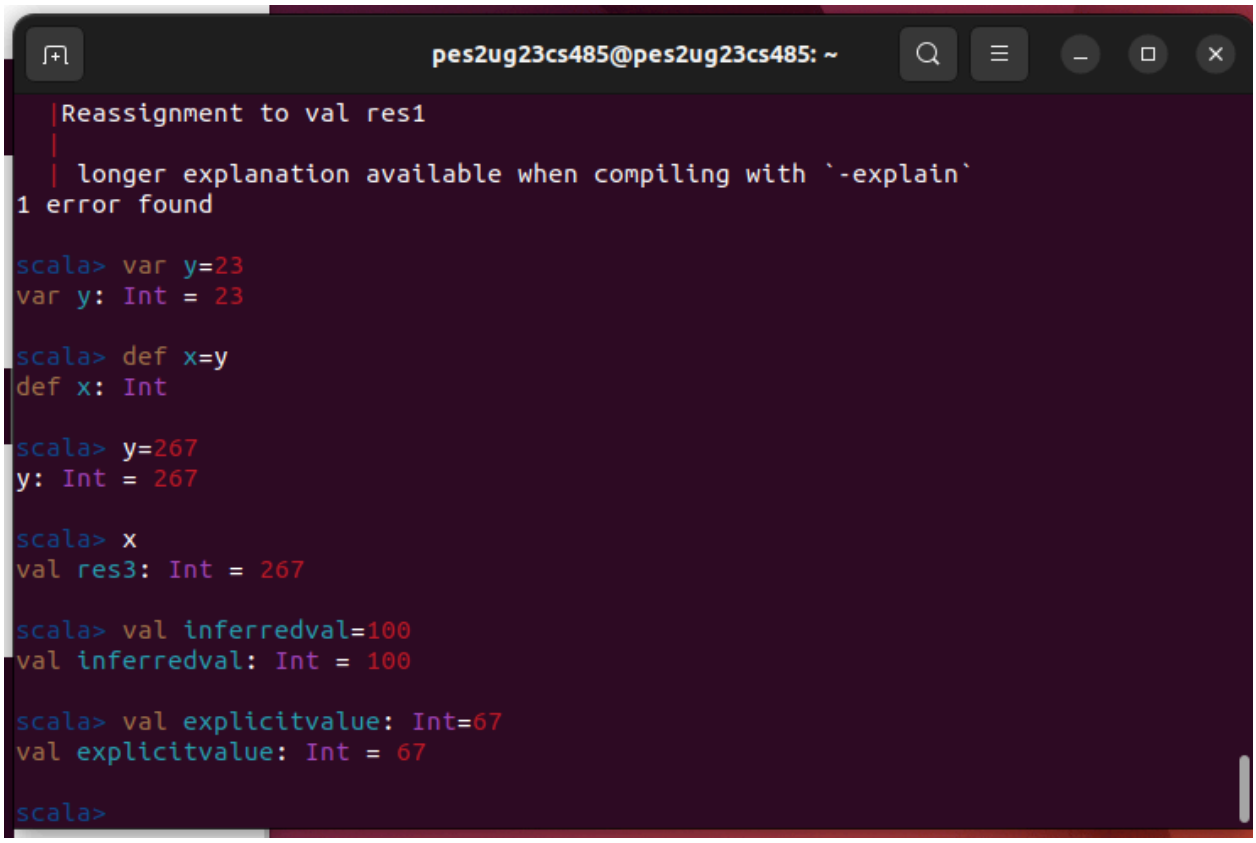
6) Dynamic update



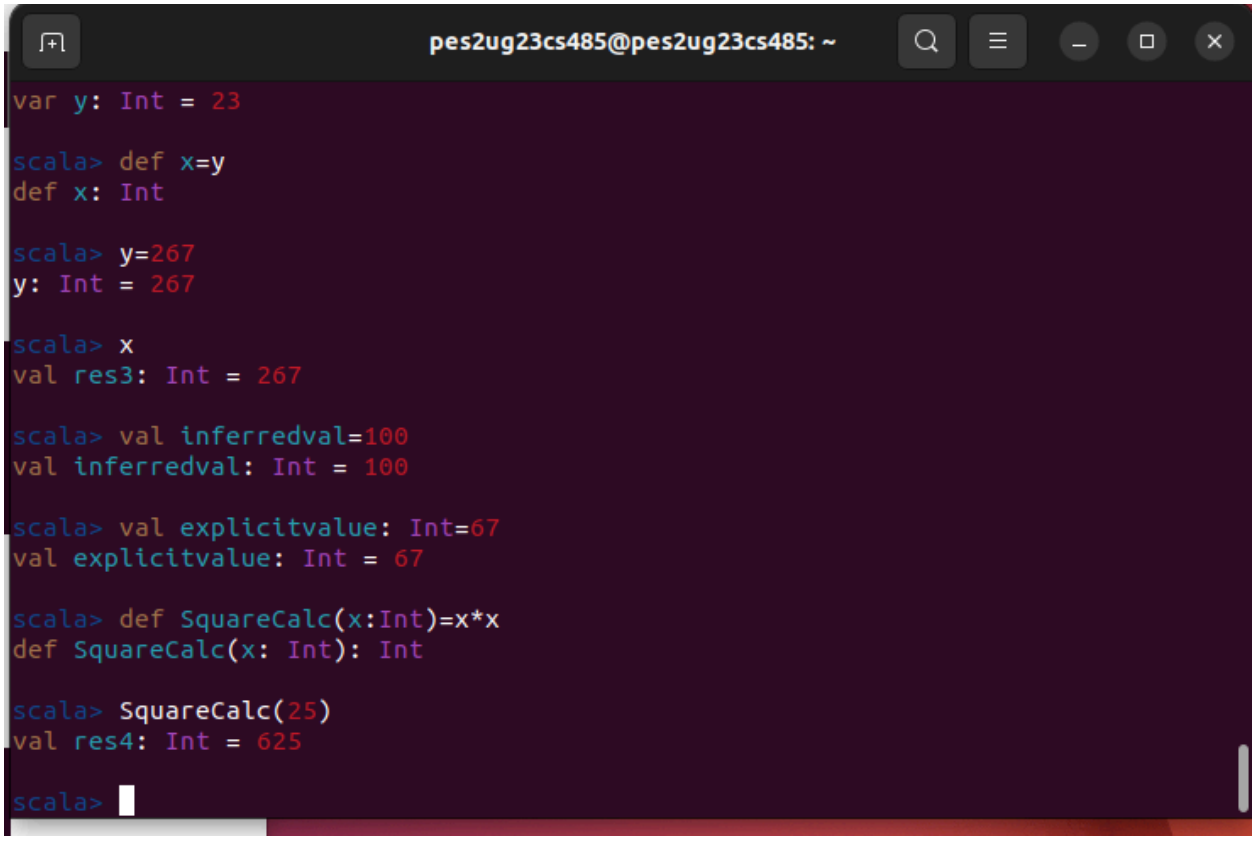
7) Inferred type



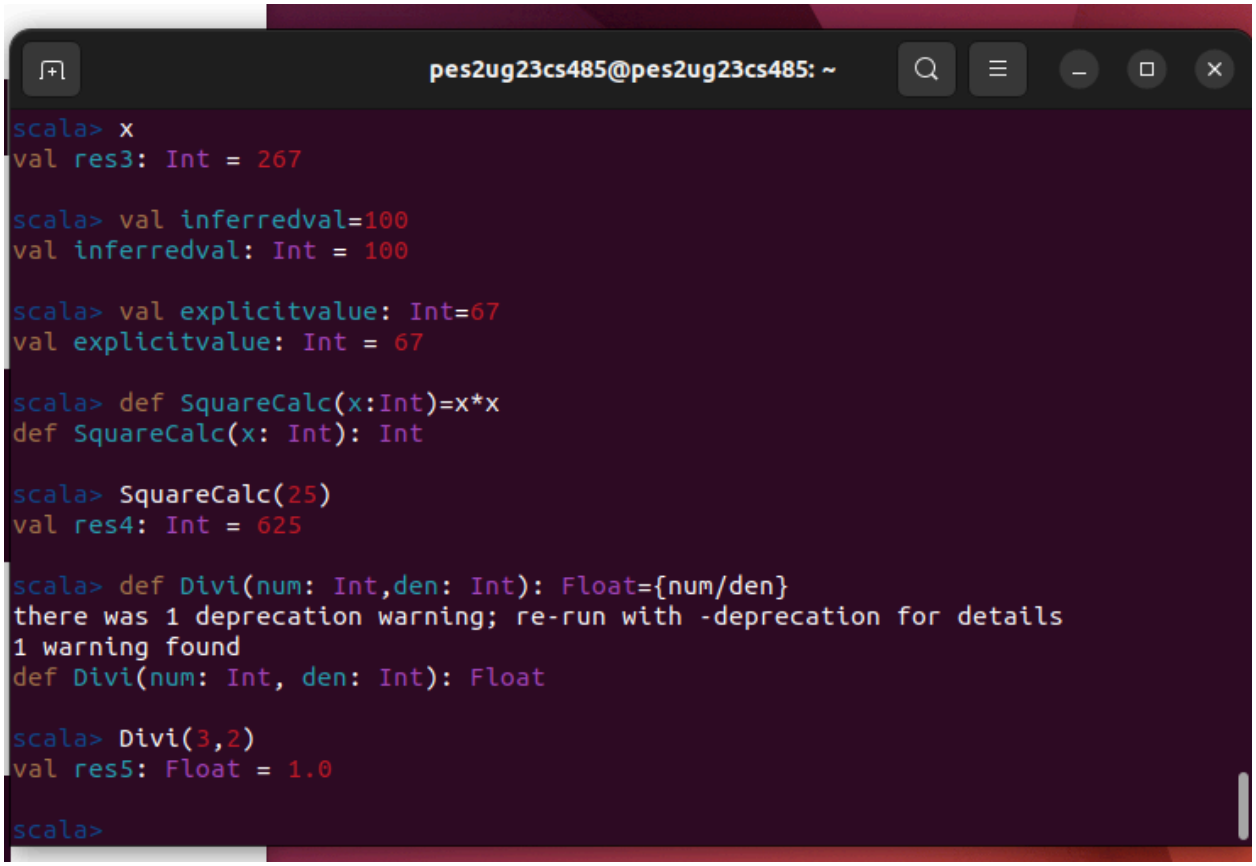
8) Explicit type



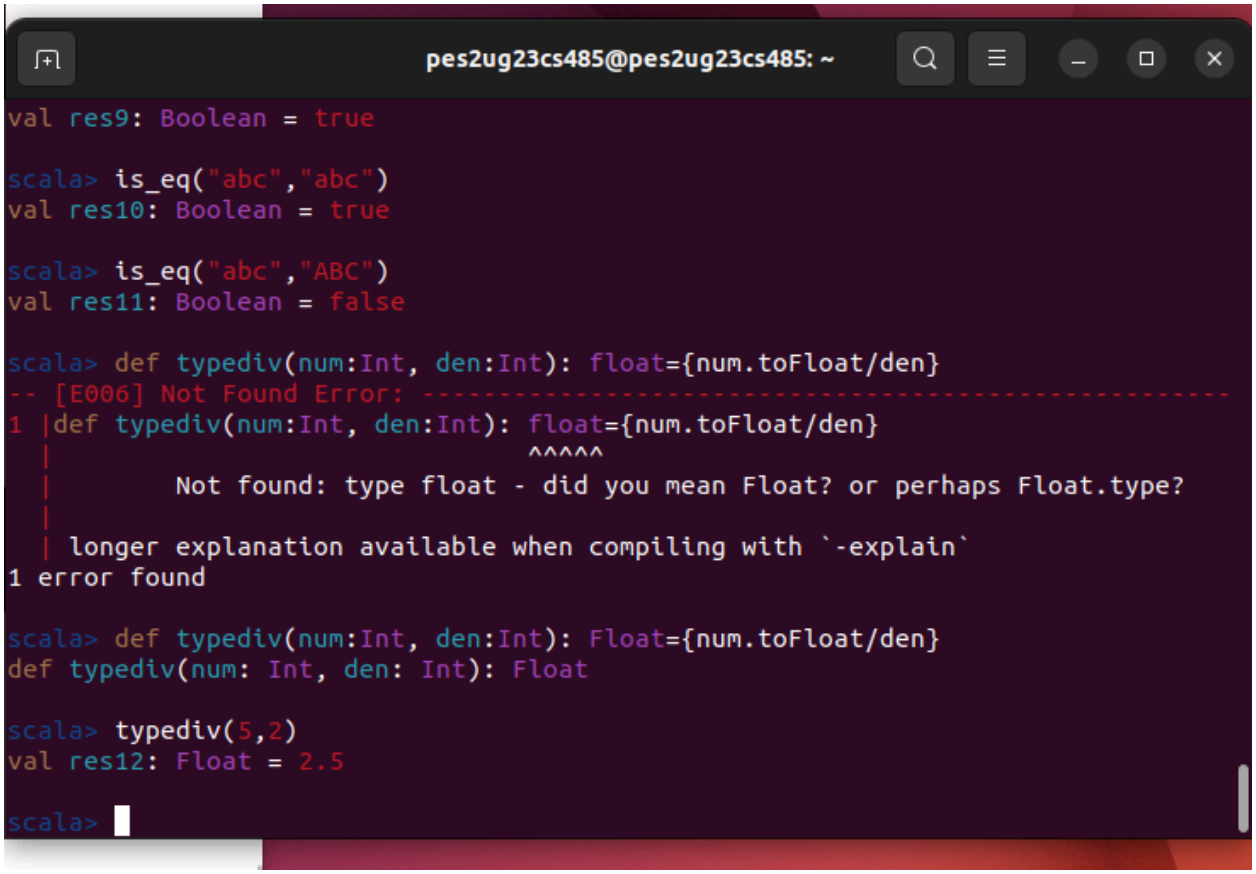
9) Implicit return type



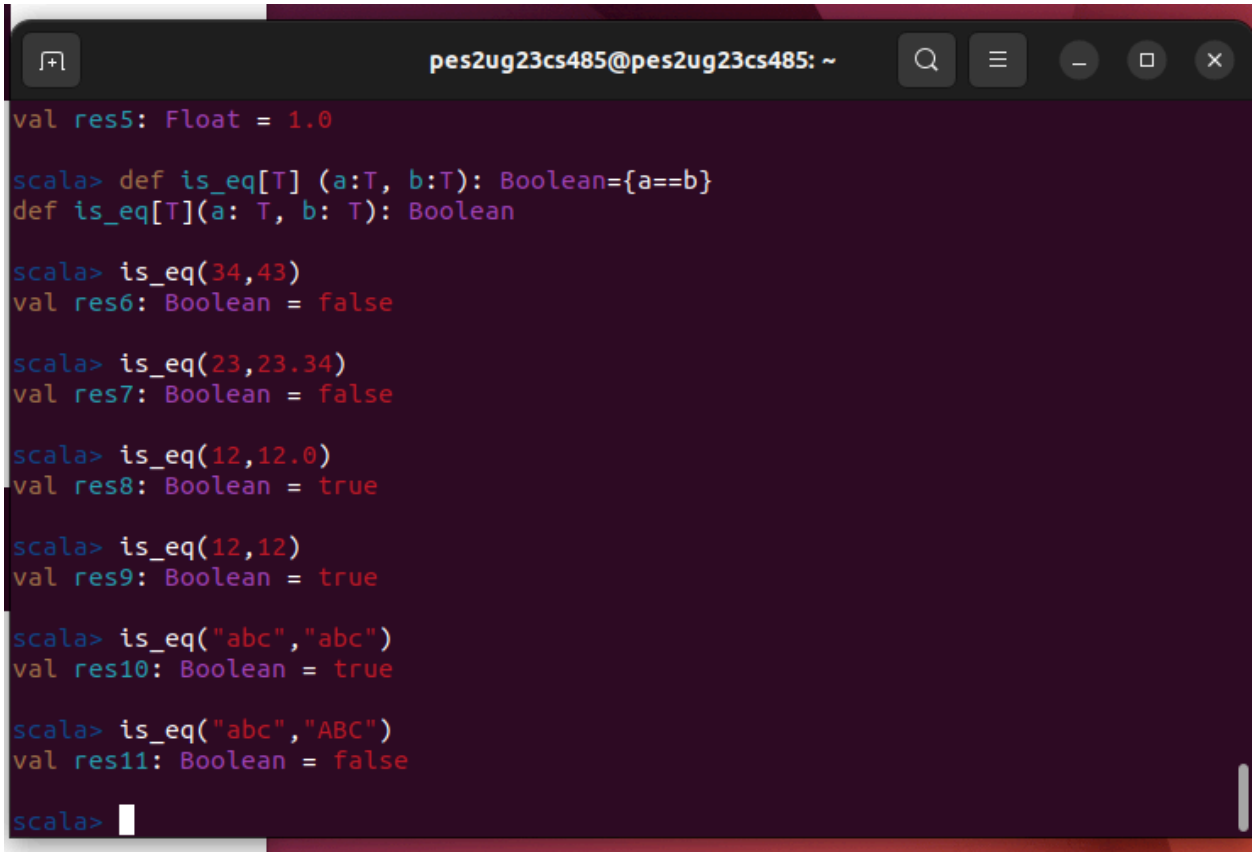
10) Explicit return type


pes2ug23cs485@pes2ug23cs485: ~
scala> x
val res3: Int = 267
scala> val inferredval=100
val inferredval: Int = 100
scala> val explicitvalue: Int=67
val explicitvalue: Int = 67
scala> def SquareCalc(x:Int)=x*x
def SquareCalc(x: Int): Int
scala> SquareCalc(25)
val res4: Int = 625
scala> def Divi(num: Int,den: Int): Float={num/den}
there was 1 deprecation warning; re-run with -deprecation for details
1 warning found
def Divi(num: Int, den: Int): Float
scala> Divi(3,2)
val res5: Float = 1.0
scala>

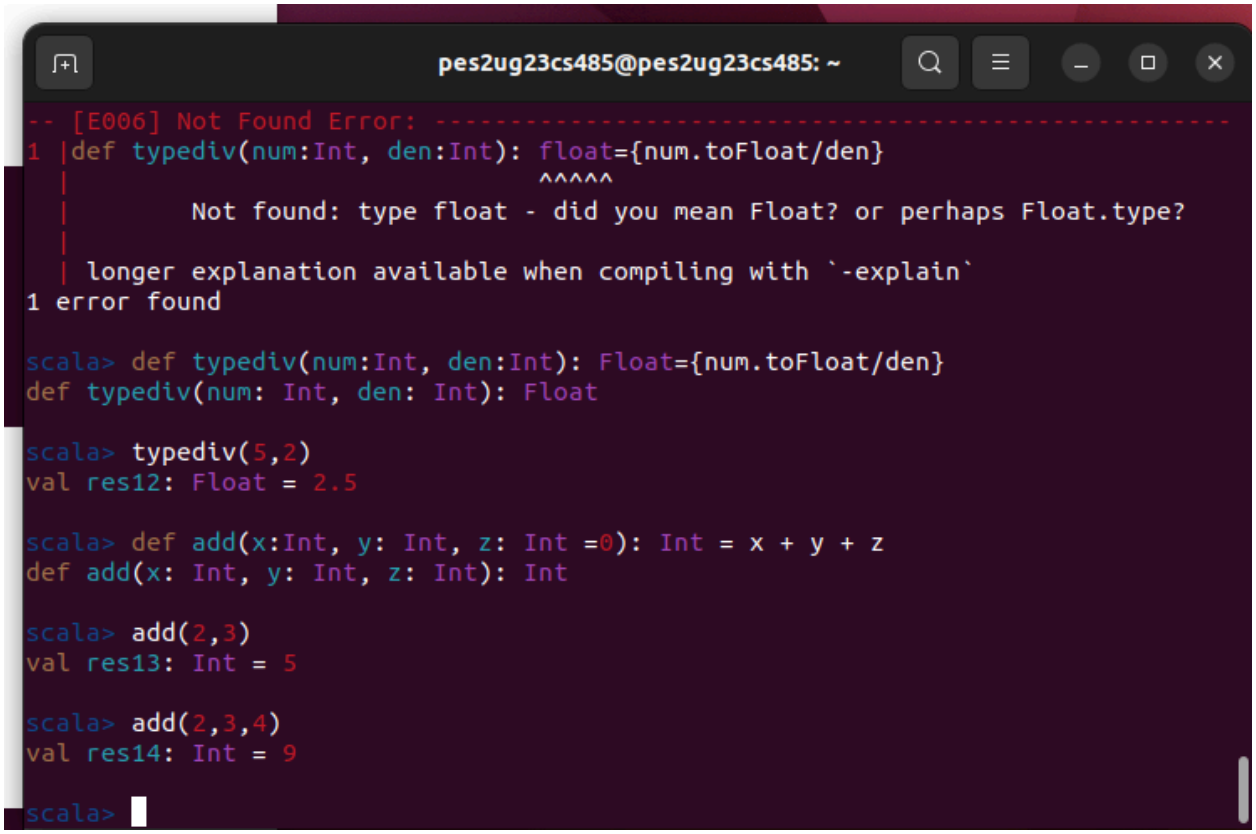
11) Type



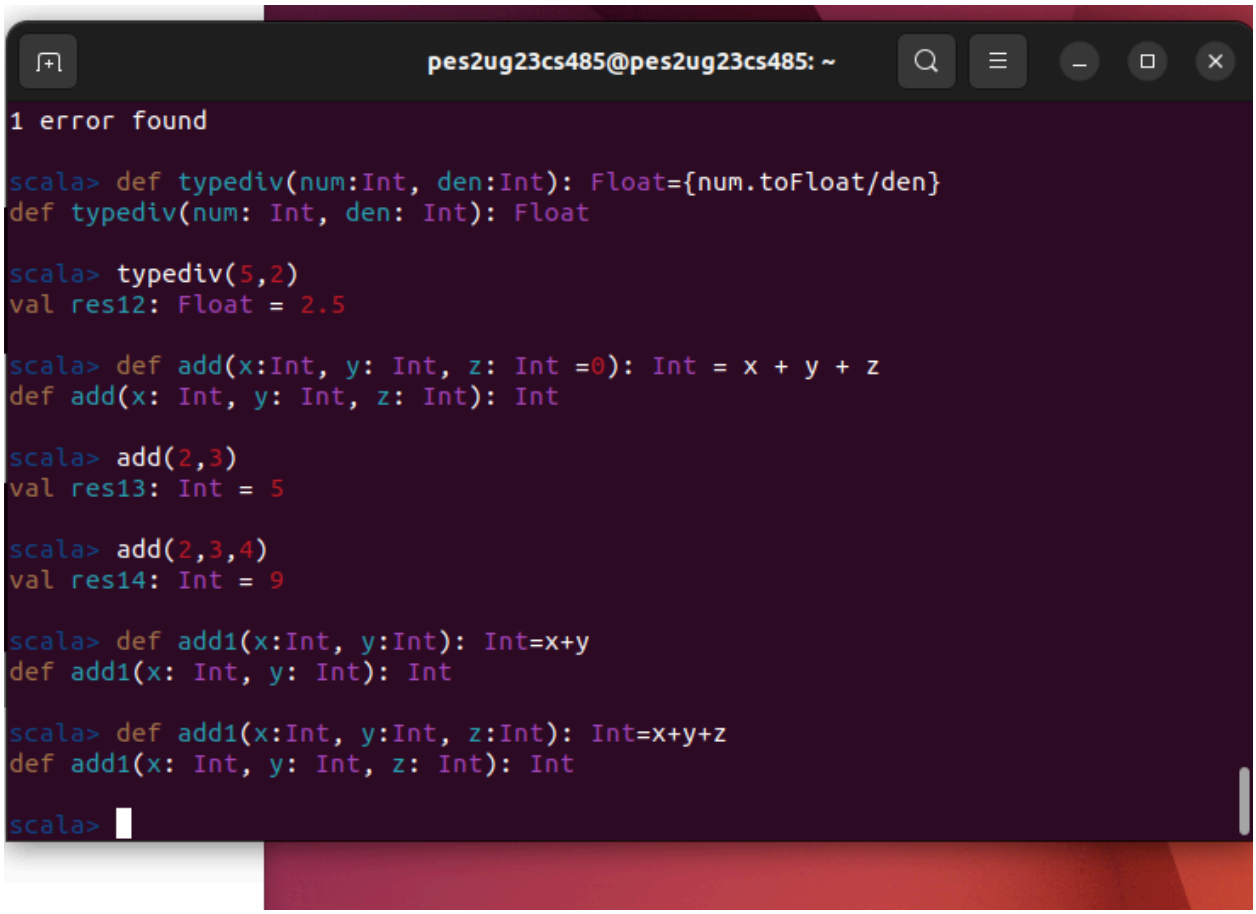
12) Generic function



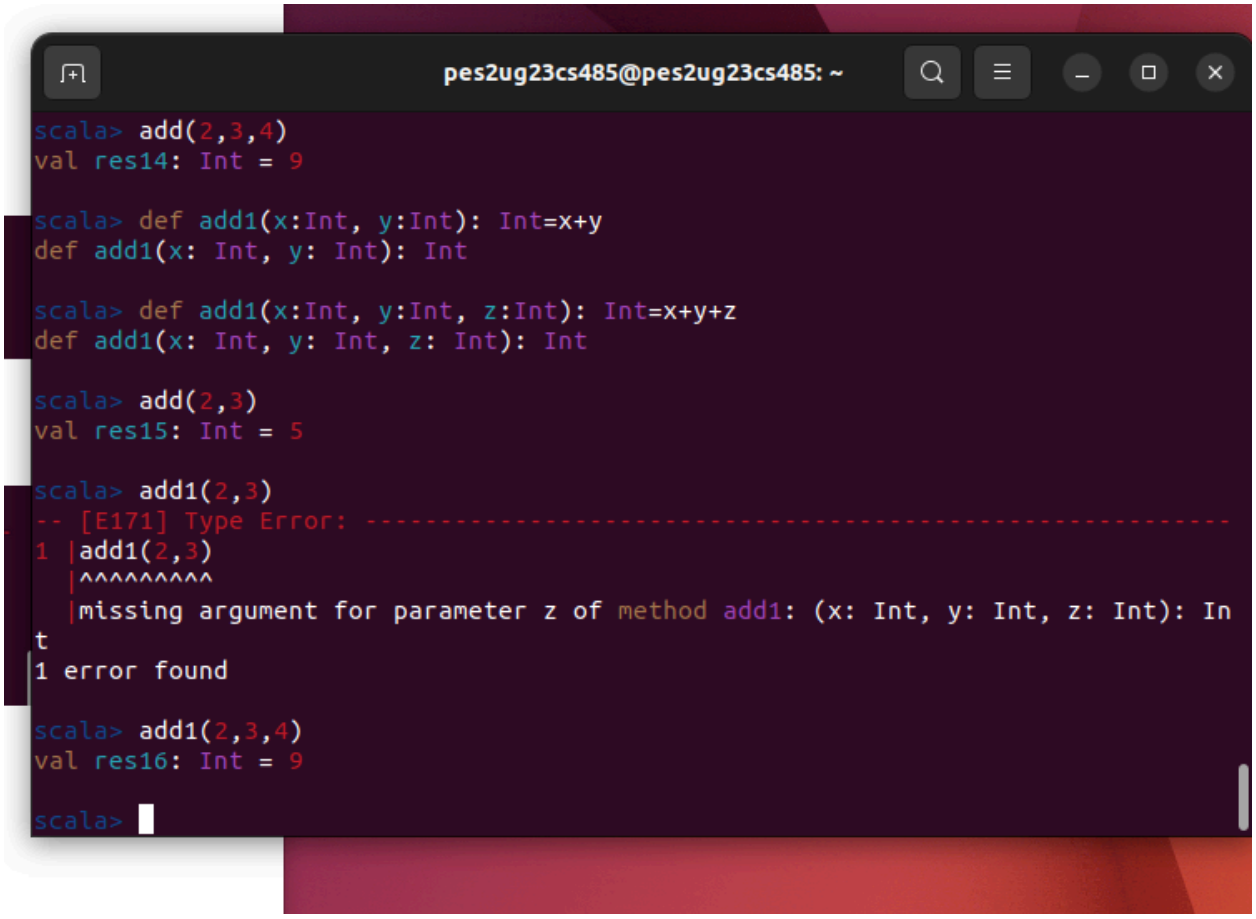
13) Default argument



14) Overriding


pes2ug23cs485@pes2ug23cs485: ~
1 error found
scala> def typediv(num:Int, den:Int): Float={num.toFloat/den}
def typediv(num: Int, den: Int): Float
scala> typediv(5,2)
val res12: Float = 2.5
scala> def add(x:Int, y: Int, z: Int =0): Int = x + y + z
def add(x: Int, y: Int, z: Int): Int
scala> add(2,3)
val res13: Int = 5
scala> add(2,3,4)
val res14: Int = 9
scala> def add1(x:Int, y:Int): Int=x+y
def add1(x: Int, y: Int): Int
scala> def add1(x:Int, y:Int, z:Int): Int=x+y+z
def add1(x: Int, y: Int, z: Int): Int
scala>

15)


pes2ug23cs485@pes2ug23cs485: ~
scala> add(2,3,4)
val res14: Int = 9
scala> def add1(x:Int, y:Int): Int=x+y
def add1(x: Int, y: Int): Int
scala> def add1(x:Int, y:Int, z:Int): Int=x+y+z
def add1(x: Int, y: Int, z: Int): Int
scala> add(2,3)
val res15: Int = 5
scala> add1(2,3)
-- [E171] Type Error: ----------
1 |add1(2,3)
|^^^^^^^^
|missing argument for parameter z of method add1: (x: Int, y: Int, z: Int): In
t
1 error found
scala> add1(2,3,4)
val res16: Int = 9
scala>

16)

pes2ug23cs485@pes2ug23cs485: ~
scala> add1(2,3,4)
val res16: Int = 9
scala> def hello(): String = "Hello Guest"
def hello(): String
scala> def hello(name: String): String= s"Hello $name"
def hello(name: String): String
scala> def hello(age: Int): String=s"You are $age years old"
def hello(age: Int): String
scala> hello()
-- [E171] Type Error: ----------
1 |hello()
|^^^^^^^
|missing argument for parameter age of method hello: (age: Int): String
1 error found
scala> hello(45)
val res17: String = You are 45 years old
scala>