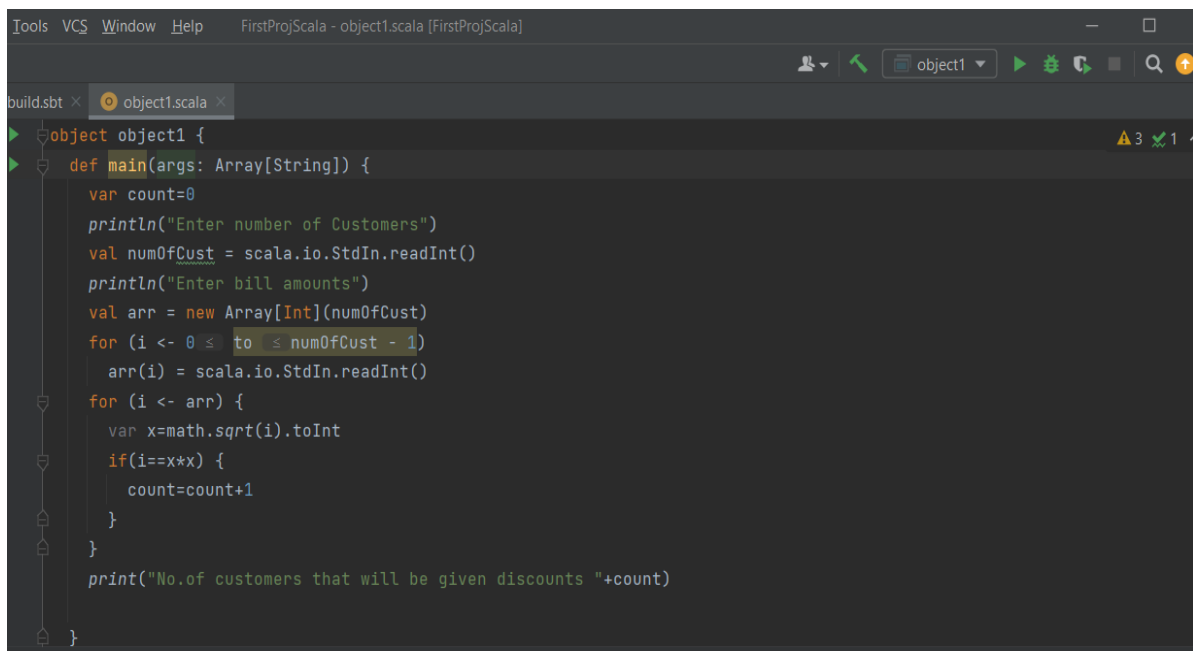


### Problem 1: Big Data - Scala Coding.

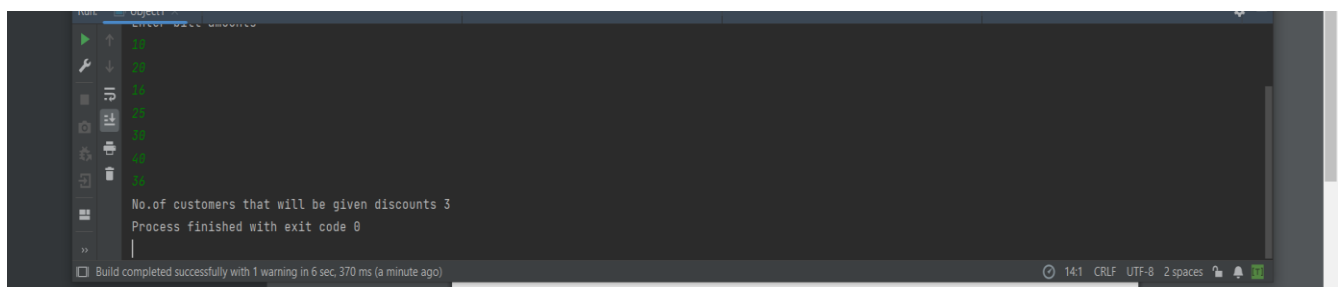
A Company “Star Grocery Store” is planning a big sale at which they will give their customers a special promotional discount. Each customer that purchases a product from the company has a unique customer ID numbered from 0 to N-1. “Brien” the marketing head of the company has selected bill amounts of the N customers for the promotional scheme. The discount will be given to customers whose bill amounts are perfect squares. The customers may use this discount on a future purchase. Write an algorithm to help Brien to find the number of customers that will be given discounts. Input: The first line consists of an integer numOfCust, representing the number of customers whose bills are selected for the promotional discount (N). The second line consists of N space-separated Integers bill1, bill2, bill3... representing the bill amounts of the N customers selected for the promotional discount.

7 10 20 16 25 30 40 36

Output: print an integer representing the number of customers



```
object object1 {  
  def main(args: Array[String]) {  
    var count=0  
    println("Enter number of Customers")  
    val numOfCust = scala.io.StdIn.readInt()  
    println("Enter bill amounts")  
    val arr = new Array[Int](numOfCust)  
    for (i <- 0 to numOfCust - 1) {  
      arr(i) = scala.io.StdIn.readInt()  
    }  
    for (i <- arr) {  
      var x=math.sqrt(i).toInt  
      if(i==x*x) {  
        count=count+1  
      }  
    }  
    print("No.of customers that will be given discounts "+count)  
  }  
}
```



```
Enter number of Customers  
7  
Enter bill amounts  
10  
20  
16  
25  
30  
40  
36  
No.of customers that will be given discounts 3  
Process finished with exit code 0  
Build completed successfully with 1 warning in 6 sec, 370 ms (a minute ago)
```