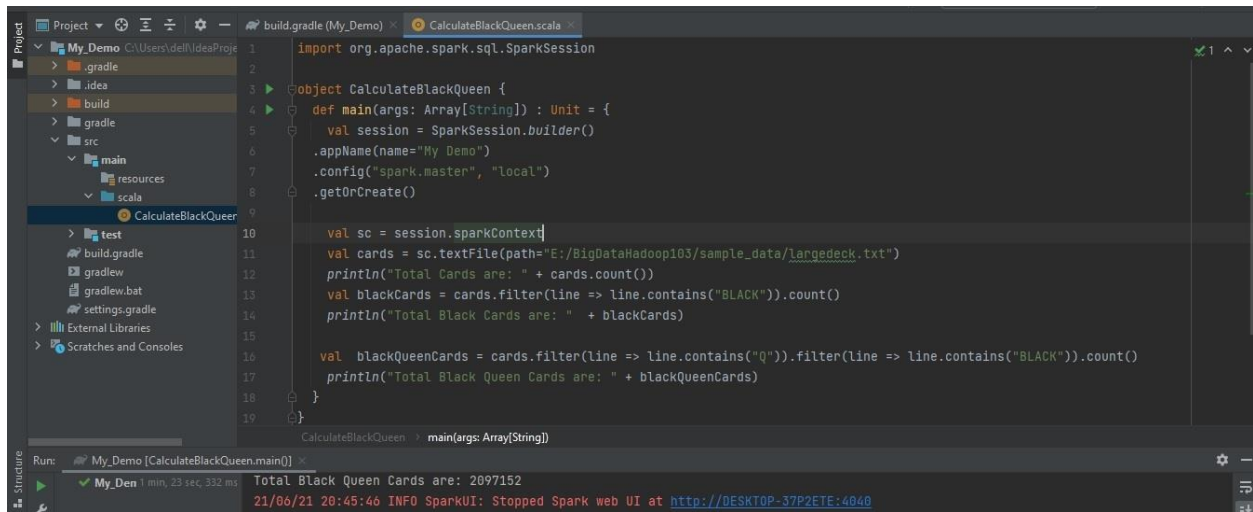


Create Gradle based Spark Application to calculate BLACK and QUEEN cards from largedeck.txt



The screenshot shows an IDE with a project named 'My_Demo'. The project structure on the left includes 'build.gradle', 'gradlew', 'resources', and 'scala'. The main file, 'CalculateBlackQueens.scala', contains the following Scala code:

```
1 import org.apache.spark.sql.SparkSession
2
3 object CalculateBlackQueen {
4   def main(args: Array[String]) : Unit = {
5     val session = SparkSession.builder()
6       .appName(name="My Demo")
7       .config("spark.master", "local")
8       .getOrCreate()
9
10    val sc = session.sparkContext
11    val cards = sc.textFile(path="E:/BigDataHadoop103/sample_data/largedecck.txt")
12    println("Total Cards are: " + cards.count())
13    val blackCards = cards.filter(line => line.contains("BLACK")).count()
14    println("Total Black Cards are: " + blackCards)
15
16    val blackQueenCards = cards.filter(line => line.contains("Q")).filter(line => line.contains("BLACK")).count()
17    println("Total Black Queen Cards are: " + blackQueenCards)
18  }
19 }
```

The Run console at the bottom shows the execution of 'My_Demo [CalculateBlackQueen.main()]' with the following output:

```
My_Demo 1 min, 23 sec, 332 ms Total Black Queen Cards are: 2097152
21/06/21 20:45:46 INFO SparkUI: Stopped Spark web UI at http://DESKTOP-37P2ETE:4040
```