

Q1. Count line which contains black queen in deckofcards dataset.

```
Code- import org.apache.spark.sql.SparkSession

object deckofcards{

    def main(args:Array[String]): Unit={

        val session = SparkSession.builder()
            .appName(name= "BlackQueen")
            .config("spark.master","local")
            .getOrCreate();

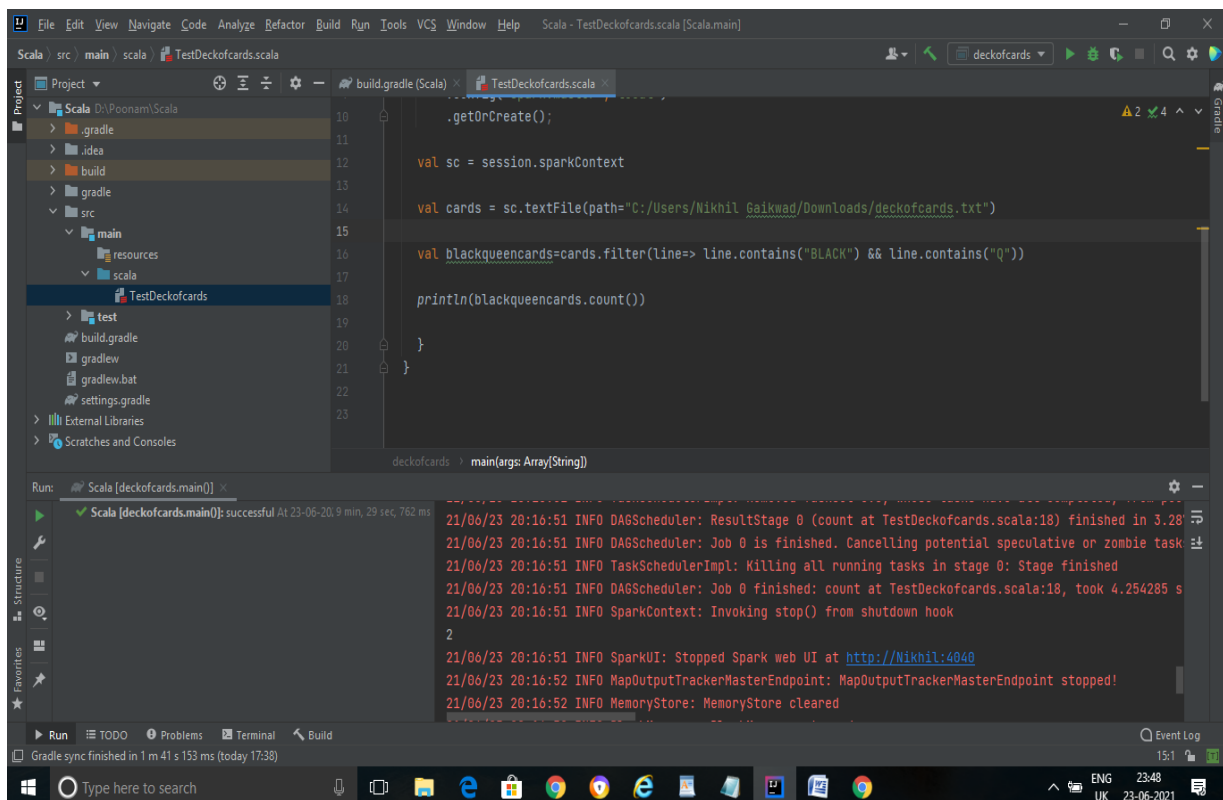
        val sc = session.sparkContext

        val cards = sc.textFile(path="C:/Users/Nikhil
Gaikwad/Downloads/deckofcards.txt")

        val blackqueencards=cards.filter(line=> line.contains("BLACK") &&
line.contains("Q"))

        println(blackqueencards.count())

    }
}
```



The screenshot displays an IDE window titled 'Scala - TestDeckofcards.scala [Scala.main]'. The left sidebar shows a project structure with 'TestDeckofcards' selected. The main editor shows the Scala code from the previous block. Below the editor, the 'Run' tab is active, showing a successful execution of 'Scala [deckofcards.main()]' at 23:06:20.9 min, 29 sec, 762 ms. The console output includes Spark logs: 'DAGScheduler: ResultStage 0 (count at TestDeckofcards.scala:18) finished in 3.28 s', 'DAGScheduler: Job 0 is finished. Cancelling potential speculative or zombie task', 'TaskSchedulerImpl: Killing all running tasks in stage 0: Stage finished', 'DAGScheduler: Job 0 finished: count at TestDeckofcards.scala:18, took 4.254285 s', 'SparkContext: Invoking stop() from shutdown hook', 'SparkUI: Stopped Spark web UI at http://Nikhil:4040', 'MapOutputTrackerMasterEndpoint: MapOutputTrackerMasterEndpoint stopped!', and 'MemoryStore: MemoryStore cleared'.