Problem Statement 1

Find out the top 5 most visited destinations.

```
import org.apache.spark.sql.SparkSession
object Assignment28 {
  def main(args: Array[String]): Unit = {
     val sparkSession = SparkSession.builder().master( master = "local")
                .appName( name = "Mlib Assignment")
                .config("spark.some.config.option", "some-value")
                .getOrCreate()
     val DelayedFlights = sparkSession.read.format( source = "csv").option("header", "true").load( path = "F:\\PDF Architect\\DelayedFlights.csv").toDF()
     println("Delayed_Flight Data->>" + DelayedFlights.count())
     DelayedFlights.createOrReplaceTempView( viewName = "FlightDetails")
     DelayedFlights.show()
     val destination = sparkSession.sql( sqlText = "select Dest, count(Dest) from FlightDetails group by Dest order by count(Dest) desc").toDF()
     destination.show( numRows = 5)
 18/08/18 20:26:15 1NFO Shuffleblockfetcheriterator: Started U remote retones in 1 ms
18/08/18 20:26:15 INFO Executor: Finished task 199.0 in stage 5.0 (TID 204). 4385 bytes result sent to driver
18/08/18 20:26:15 INFO TaskSetManager: Finished task 199.0 in stage 5.0 (TID 204) in 13 ms on localhost (executor driver) (200/200)
18/08/18 20:26:15 INFO TaskSchedulerImpl: Removed TaskSet 5.0, whose tasks have all completed, from pool
18/08/18 20:26:15 INFO DAGScheduler: ResultStage 5 (show at Assignment28.scala:16) finished in 3.207 s
18/08/18 20:26:15 INFO DAGScheduler: Job 3 finished: show at Assignment28.scala:16, took 20.379263 s
 18/08/18 20:26:15 INFO CodeGenerator: Code generated in 19.267736 ms
 |Dest|count(Dest)|
 I ORDI
| ATL|
             505581
 | DFW|
             38458|
 | DEN|
             342181
 | LAX|
            325491
 only showing top 5 rows
 18/08/18 20:26:15 INFO BlockManagerInfo: Removed broadcast 10 piece0 on 192.168.1.8:64766 in memory (size: 12.9 KB, free: 350.4 MB)
 18/08/18 20:26:15 INFO SparkContext: Invoking stop() from shutdown hook
```

Problem Statement 2

Which month has seen the most number of cancellations due to bad weather?

Problem Statement 3

Which route (origin & destination) has seen the maximum diversion?