*# Import the necessary module*

from pyspark.sql import \*

*# Create a SparkSession object*  
spark = SparkSession.builder.appName('WriteToCSV').getOrCreate()

*# Create a list of Data and Define schema for the data*  
myData = [(1,'Harsha'),(2,'Mokshit'),(3,'Kiran')]  
  
mySchema = ['Id','Name']

*# Create a DataFrame from the data and schema*  
df = spark.createDataFrame(data=myData, schema=mySchema)

*#==============================================  
# Using the 'write' method of the DataFrameWriter class:*df.write.csv(path='C:/Users/hars2071/Downloads/DEPractice/DFtoCSV/cust')

spark.read.csv(path='C:/Users/hars2071/Downloads/DEPractice/DFtoCSV/cust').show()

*Output:*

+---+-------+

| Id| Name|

+---+-------+

| 1| Harsha|

| 2|Mokshit|

| 3| Kiran|

+---+-------+

*#==============================================  
# Specifying the options using 'option' method:*df.write.option('header',True)\  
 .option('delimiter',',')\  
 .csv(path='C:/Users/hars2071/Downloads/DEPractice/DFtoCSV/cust')

spark.read.csv(path='C:/Users/hars2071/Downloads/DEPractice/DFtoCSV/cust/',header=True).show()

*Output:*

+---+-------+

| Id| Name|

+---+-------+

| 1| Harsha|

| 2|Mokshit|

| 3| Kiran|

+---+-------+

*#=========================================================================  
# Using the 'format' method to specify the output format and 'save' method:*df.write.format('csv')\  
 .option('header',True)\  
 .save(path='C:/Users/hars2071/Downloads/DEPractice/DFtoCSV/cust')

spark.read.csv(path='C:/Users/hars2071/Downloads/DEPractice/DFtoCSV/cust/',header=True).show()

*Output:*

+---+-------+

| Id| Name|

+---+-------+

| 1| Harsha|

| 2|Mokshit|

| 3| Kiran|

+---+-------+

*#==================================================  
# Now let’s look at different modes that can be used  
  
# Append: If the file already exists, new data is appending to the existing file.*df.write.csv('C:/Users/hars2071/Downloads/DEPractice/DFtoCSV/cust', header=True, mode='append')  
  
*# Overwrite: If the file already exists, it is overwritten with the new data*df.write.csv('C:/Users/hars2071/Downloads/DEPractice/DFtoCSV/cust', header=True, mode='append')  
  
*# ignore: If the file already exists, the write operations is ignored and no new data is written to the file.*df.write.csv('C:/Users/hars2071/Downloads/DEPractice/DFtoCSV/cust', header=True, mode='ignore')  
  
*# error: If the file already exists, an error is raised.*df.write.csv('C:/Users/hars2071/Downloads/DEPractice/DFtoCSV/cust', header=True, mode='error')