Program for Task1:

<u>Task-1:</u> Write a Spark job without using SQL to determine the minimum pressure at 9am (Pressure9am) for Launceston (location).

##Printing the question
```
>>> print("\033[1m" + "Task 1: Write a Spark job without using SQL to determine the minimum pressure at 9am (Pressure9am) for Launceston (location)" + "\033[0m")
```
Task 1: Write a Spark job without using SQL to determine the minimum pressure at 9am (Pressure9am) for Launceston (location)

Importing Packages
```
>>> import pyspark
>>> from pyspark.sql import SparkSession
>>> from pyspark.sql.functions import *
>>> from pyspark.sql.types import *
>>> import pyspark.sql.functions as func
>>> from datetime import datetime
```
initialiizing sparksession object as session
```
>>> sparksession = SparkSession.builder.appName("Twitter-stream").master("local[*]").getOrCreate()
```
loading the data into dataframe
```
>>> dataframe = sparksession.read.csv("/user/common_data/Spark_Assignment_Dataset.csv",header = True, inferSchema = True,nullValue = "NA")
```
##Perform filter operation on data frame and Assigning the result to a variable "Pressure_9am"
```
>>> Pressure_9am = dataframe.filter("Location == 'Launceston'").agg(func.min(func.col("Pressure9am")))
```
##Printing a sentence of task and resultant of Task1
```
>>> print(" Minimum Pressure at 9 am where location is Launceston is \n ")
```
 Minimum Pressure at 9 am where location is Launceston is

##Printing Output
```
>>> Pressure_9am.show(vertical = True)
-RECORD 0----------------
 min(Pressure9am) | 985.0
```