Program for Task2:

Task-2: Write a Spark job without using SQL to determine the average pressure at 9am (Pressure9am) for Launceston (location).

```
##Printing the question
>>> print("\033[1m" + "Task 2: Write a Spark job without using SQL to
determine the average pressure at 9am (Pressure9am) for Launceston
(location)" + "\033[0m")
Task 2: Write a Spark job without using SQL to determine the average
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 "Avg_Pressure_9am"
>>> Avg_Pressure_9am = dataframe.filter("Location ==
'Launceston'").agg(func.avg(func.col("Pressure9am")))
##Printing a sentence of task and resultant of Task2
>>> print(" Average Pressure at 9 am where location is Launceston is \n ")
 Average Pressure at 9 am where location is Launceston is

##Printing Output
>>> Avg_Pressure_9am.show(vertical = True)
-RECORD 0----------------------------
 avg(Pressure9am) | 1015.6792792792787
```