## BIG DATA MODULE END EXAM ANIKET KARAD

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**SPARK** 

Q1

Ans

total = air\_split.filter(lambda a : (a[3] > 40000))

total.count()

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```

## Q2

1.

## Ans

```
min = air_split.map(lambda a : a[2]).min()
max = air_split.map(lambda a : a[2]).max()
avg = air_split.map(lambda a : a[2]).mean()
```

```
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                                                                                                                                                                                                                                                                                                      ☆ Ď A :
  >>> airline.count()
  85
>>> header = airline.first()
 >>> meauer = alrille.TirSt()
>>> airline_clean = airline.filter(lambda a : a != header)
>>> airline_clean.count()
  >>> air_split = airline_clean.map(lambda a : (a.split(",")[0],a.split(",")[1],float(a.split(",")[2]),int(a.split(",")[3])))
 >>> for line in air_split.take(10):
... print(line)
... print(line)

('1995', '1', 296.9, 46561)
('1995', '2', 296.8, 37443)
('1995', '3', 287.51, 34128)
('1995', '4', 287.78, 39388)
('1996', '1', 283.97, 47808)
('1996', '2', 275.78, 43929)
('1996', '4', 278.33, 37443)
('1997', '1', 283.4, 35667)
('1997', '1', 283.4, 35667)
('1997', '2', 299.44, 45565)

>>> min = air_split.map(lambda a : a[2]).min()

Traceback (most recent call last):

File "cstdin", line 1, in (module)

AttributeError: 'float' object has no attribute 'max'

>>> min = air_split.map(lambda a : a[2]).max()

>>> min = air_split.map(lambda a : a[2]).max()
  >>> min = air_split.map(lambda a : a[2]).min()
  >>> max = air_split.map(lambda a : a[2]).max()
>>> max
 >>> max
396.37
>>> avg = air_split.map(lambda a : a[2]).mean()
>>> avg
329.7475
>>> ¶
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2.
ANs
total = air split.filter(lambda a : (a[2] > 290))
total.count()
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    File "<stdin>", line 1
for line air_split.take(5):
 SyntaxError: invalid syntax
>>> for line in air_split.take(5):
... print(line)
 ... print(line)
... print(line)
... ('1995', '1', 296.9, 46561)
... ('1995', '2', 296.8, 37443)
... ('1995', '3', 287.51, 34128)
... ('1995', '4', 287.78, 39388)
... ('1996', '1', 283.97, 47888)
... ** total = air_split.map(lambda a : (a[3] > 40000))
... ** total = air_split.map(lambda a : (a[0],a[3] > 40000))
... ** total = air_split.map(lambda a : (a[0],a[3] > 40000))
... ** total = air_split.map(lambda a : (a[3] > 40000))
... ** total = air_split.map(lambda a : (a[3] > 40000))
... ** total = air_split.map(lambda a : (a[3] > 40000))
... ** total = total.map(lambda a : (a = True))
... ** total = total.map(lambda a : (a = True))
... ** total = total.map(lambda a : (a = True))
... ** total = total.map(lambda a : (a = True))
... ** total = total.map(lambda a : (a = True))
... ** total = total.map(lambda a : (a = True))
... ** total = total.map(lambda a : (a = True))
... ** total = total.map(lambda a : (a = True))
 SyntaxError: invalid syntax
>>> total = air_split.map(lambda a : (a[3] > 40000))
>>> total.take(5)
[True, False, False, False, True]
>>> total = air_split.filter(lambda a : (a[3] > 40000))
>>> total.take(5)
 = air_sp = air_split.filter(lambda a : (a[2] > 290))
>>> total = air_split.filter(lambda a : (a[2] > 290))
  >>> total.count()
  >>>
```

3.

Ans

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total = air\_split.map(lambda a : a[3]).sum()
(This for total no. of seats booked combining all quarters in
dataset)

```
Total_book = air_split.map(lambda a : (a[0],a[3]))
Total_seat = total_book.reduceByKey(lambda a,b : a+b)
total seat.take(5)
```

```
## Catachapaccoudloda.com/shell

return func(splits, prev_func(splits, iterator))

File "opt/spark-31.12/python/pyspark/dd.py", line 2916, in pipeline_func
return func(splits, prev_func(splits, iterator))

File "opt/spark-31.12/python/pyspark/dd.py", line 2144, in combinelocally
File "opt/spark-31.12/python/pyspark/dd.py", line 2144, in combinelocally
File "opt/spark-31.12/python/pyspark/dd.py", line 248, in func
return f(iterator)
File "opt/spark-31.12/python/pyspark/dd.py", line 248, in mergeValues
For k, v in iterator:
TypeError: cannot unpack non-iterable int object

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5.
Ans
total_rev = air_split.map(lambda a : (a[0],a[2]*a[3]))
total_rev_red = total_rev.reduceByKey(lambda a,b : a+b)
total_rev_red.take(5)
```

