

## Assignment 1 - PySpark

### Task 1

#### Max temperature for each year:

(u'1950', (u'98610', 26.2))  
(u'1969', (u'99450', 26.0))  
(u'2014', (u'99450', 26.0))  
(u'1983', (u'99450', 25.8))  
(u'1994', (u'99450', 25.7))  
(u'2005', (u'99450', 25.7))  
(u'1975', (u'99450', 25.6))  
(u'1997', (u'99450', 25.5))  
(u'2003', (u'99450', 25.5))  
(u'2010', (u'99450', 25.2))  
(u'2004', (u'99450', 25.1))  
(u'1991', (u'99450', 25.1))  
(u'2008', (u'99450', 24.7))  
(u'2002', (u'99450', 24.7))  
(u'2001', (u'99450', 24.7))  
(u'1955', (u'99450', 24.6))

#### Min temperature for each year:

(u'2014', (u'192840', -42.5))  
(u'1952', (u'192830', -35.5))  
(u'1976', (u'192830', -42.2))  
(u'1999', (u'192830', -49.0))  
(u'2010', (u'191910', -41.7))  
(u'2012', (u'191910', -42.7))

(u'1983', (u'191900', -38.2))

(u'1993', (u'191900', -39.0))

(u'1980', (u'191900', -45.0))

(u'1965', (u'189780', -44.0))

## Task 2

Output:

(u'2014-12', 1)

(u'2014-11', 158)

(u'2014-10', 270)

(u'2014-09', 296)

(u'2014-08', 296)

(u'2014-07', 297)

(u'2014-06', 298)

(u'2014-05', 296)

(u'2014-04', 254)

(u'2014-03', 169)

(u'2014-02', 15)

(u'2014-01', 0)

## Task 3

((u'1990-12', u'154860'), -2.0)

((u'1966-07', u'92030'), 20.5)

((u'1970-08', u'55570'), 16.8)

((u'1951-01', u'167980'), -21.2)

((u'1978-09', u'95160'), 11.1)

((u'1962-05', u'63450'), 12.1)

((u'1957-09', u'108170'), 12.3)

((u'1955-08', u'139540'), 16.4)

((u'1966-03', u'64620'), 2.2)

((u'1982-07', u'132180'), 18.9)

## Task 4

There is no output for this task!

## Task 5

**This is a subset of the output, sorted in descending order by average rain:**

(u'1995-09', 164.90000000000003)

(u'2003-07', 155.2)

(u'2000-07', 136.59999999999988)

(u'2011-06', 133.7)

(u'1998-08', 131.59999999999994)

(u'2006-08', 129.49999999999991)

(u'2002-06', 122.59999999999998)

(u'2006-10', 120.4)

(u'2008-08', 119.99999999999984)

(u'2007-07', 111.50000000000003)

(u'2010-07', 110.80000000000003)

(u'2001-09', 108.99999999999999)

(u'2007-06', 108.39999999999998)

(u'2009-11', 108.19999999999993)

(u'2012-06', 107.00000000000003)

(u'1998-06', 104.59999999999991)

(u'2015-09', 104.49999999999994)

(u'1998-07', 102.09999999999995)

(u'2000-11', 99.89999999999992)

(u'1997-12', 97.19999999999995)