

## Assignment 3 –Spark script

Name: Tim Gras  
Studentnumber: 630259  
Github URL => <https://github.com/dantim1997/PDP-Assignments-630259/tree/main/Assignment%203>

## Setup

I could not run this script on Hadoop so I runed it locally in my pc with this tutorial:

<https://phoenixnap.com/kb/install-spark-on-windows-10>

To run the code, install a following this tutorial.

Make sure to have spark running.

Run the file Assignment\_3.py.

## execute

Run the file Assignment\_3.py to execute the code.

## Information

The script searches gets the information about the titanic.

In assignment A it will look which group on average survived based on the class they were in.

In assignment B it will look for the probability a child survived based on age and class.

In assignment C it will look for the average fare the different classes payed

The script itself has the code explanation.

## GitHub

Assignment\_3.py This is the script that will be used to look at all the assignments A trough C.  
Assignment 3.docx This is the documentation.  
Result.jpg the results of the script in a jpg format.

## Result:

Result for assignment A:

Sex Class	avg(Survived)
male  3	0.13702623906705538
female  3	0.5
female  1	0.9680851063829787
female  2	0.9210526315789473
male  2	0.1574074074074074
male  1	0.36885245901639346

Result for assignment B:

probability that a child in the third class will survive: 41.509433962264154

Result for assignment C:

Class	avg(PayedFare)
1	84.15468752825701
3	13.707707501045244
2	20.66218318109927