Python Training, MM1, MMS

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March 4, 2020

Resources

All files are available at
`github.com/xandhiller/maths_notebooks`.

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Solutions can be provided if you get stuck.

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Relevant Files

`00_Python_Basics.ipynb`

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00_Python_Basics.ipynb
01_Differentiation_Integration.ipynb

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02_Vectors.ipynb

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03_Plotting.ipynb
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01_Differentiation_Integration.ipynb
02_Vectors.ipynb
03_Plotting.ipynb
04_Matrices.ipynb
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Running the Files

<Microsoft Azure Demo >

Structure

`00_Python_Basics.ipynb` can be set as pre-requisite reading with the use of the setup document and video on how to run Azure Notebooks.

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`01_Differentiation_Integration.ipynb`
`02_Vectors.ipynb`
`03_Plotting.ipynb`
`04_Matrices.ipynb`

There also other notebooks that were developed for IMAM (37132).

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These can be used by other courses, should you see fit.

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```
01_Differentiation_Integration.ipynb
02_Vectors.ipynb
03_Plotting.ipynb
04_Matrices.ipynb
05_Riemann_Sums.ipynb
06_Partial_Derivatives.ipynb
07_Optimisation.ipynb
08_Vector_Calculus.ipynb
09_Integrals_and_Animation.ipynb
10_Differential_Equations.ipynb
```

Demos

<Run through `Differentiation and Integration`>

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<Run through `Differentiation and Integration`>

<Run through `Matrices`>

Problem Solving

Produce a function that prints out odd values up to a number n.

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Produce a function that prints out odd values up to a number n.

Produce an implementation of Newton's Method.