

Python3 Programming Project Report

Heads or Tails

[Word counts are approximate and only for guidance]

STUDENT ID:

[150 words] INTRODUCTION:

Intended user/s
brief description of function
STATEMENT OF THE PROBLEM

[400 words] REQUIREMENTS:

Requirements
USER STORIES
ACCEPTANCE CRITERIA

[500 words] DESIGN AND IMPLEMENTATION:

Design of your solution to the problem

Implementation plan

Diary of tasks

diary of successes and problems and changes to the original plan

debugging of problems and iterations required to solve them

areas of subject knowledge used

[350 words] PROGRAMMING TECHNIQUES USED:

EXAMPLE PROGRAMMING TECHNIQUES:

Uses a DATA STRUCTURE for large data sets

Uses an ALGORITHM to transform data sets

Uses suitable variable names, comments and annotations effectively

Effective use of common Python libraries and modules

Reads data from a file

Writes data to a file

Transforms between data types where necessary – Boolean, string, float, integer, etc.

Correct use of AND/OR/NOT for logical comparisons

Manipulates binary bits – bitwise operation

Parses input – text or numbers

Use of sequences, iteration and conditions

Use of functions, variable scope and recursion

Use of Python classes is not necessary. It is not part of the IFP's Python 3 syllabus

[100 words] INSTRUCTIONS:

How to run it, so that it can be tested

[200 words] TESTING and MAINTENANCE:

Process used to test the program.

Examples of data that have been used for testing

Does it meet the users' original requirements?

[300 words] REFLECTION and NEXT STEPS

What went well in the project? What caused problems? How does this relate to a previous software project (if any)? How does your experience compare to the recognised software development processes?

What would you do better next time?

[Not counted] REFERENCES / OPEN SOURCE DECLARATIONS:

Reference any citation made in your report

Reference any other sources that have support the development of our program or report.

Declare any necessary open source licences.