Future لے Learn



Certificate of Achievement

Matthias Giger

has completed the following course:

UNDERSTANDING MATHS AND LOGIC IN COMPUTER SCIENCE

RASPBERRY PI FOUNDATION AND NATIONAL CENTRE FOR COMPUTING EDUCATION

This online course involved developing your understanding and ability to teach maths and logic in computing while building elements of an escape room. It covered using Boolean logic along with arithmetic and comparative operators, as well as binary, denary and hexadecimal numbers.

3 weeks, 2 hours per week

Dr Sue Sentence Chief Learning Officer Raspberry Pi Foundation







This learner has not verified their identity. The certificate and transcript do not imply the award of credit or the conferment of a qualification from Raspberry Pi Foundation and National Centre for Computing Education.



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STUDY REQUIREMENT

3 weeks, 2 hours per week

LEARNING OUTCOMES

- Identify the AND, OR, NOT and XOR logical operators, recognise the symbols representing each logic gate, and be able to combine them in logic circuits and statements
- Develop knowledge of and be able to use equal to • addition • subtraction • multiplication
 real division • integer division, including remainders
- Produce drawings of truth tables and logic circuits and recognise a logic gate/circuit from its truth table
- Calculate conversion between binary and denary whole numbers (0-255)
- Explain why hexadecimal is often used in computer science, convert between binary and hexadecimal & decimal and hexadecimal

SYLLABUS

- Mathematics
- Logic
- Programming
- Control structures
- Programming language grammars



TRANSCRIPT