



Hello! Welcome to the exam for the  
'Introduction to coding' course.

## **LEARNHACK TUTORING**

### **EXAMINATION PAPER**

**Examination Paper Title:** I2C course exam

**Duration:** 1 hour

**Do not turn this paper over until instructed to do so by the Tutor.**

#### **Structure of Examination Paper:**

There are 3 pages.

The examination paper is divided into 5 sections.

There are 20 questions in total.

There are no appendices.

The mark obtainable for a question is shown in brackets alongside the question.

**1. What is programming? (Module 1)**

[1]

Student should answer along the lines of;

*An individual defining a number of steps/instructions that a computer will take to solve a problem of some form. Or the simplified (easy way to remember it) – we are telling a computer what to do* ✓

**2. What is the primary language of a computer? (Module 1)**

[1]

Binary ✓

**3. What is Python? (Module 1)**

[1]

Student should answer along the lines of;

Python is a computer language, which allows us to tell a computer what to do ✓

**4. What is a keyword in Python and what does it do? (Module 1)**

[1]

Student should answer along the lines of;

*Words that act as a shortcut of some sort. Simple for us to write, and simple for the computer to understand* ✓

**5. What is a comment in Python and why are they used? (Module 2)**

[1]

Student should answer along the lines of;

*Comments are lines written in code that have the purpose of detailing or indicating what a section of code – or snippet – does* ✓

**6. What is a variable in Python? (Module 2)**

[1]

Student should answer along the lines of;

*A Python variable is a symbolic name that is a reference or pointer to an object. In other words, a variable is a placeholder that refers the computer to where the data is held* ✓

**7. Define mutable (Module 2)**

[1]

Student should answer along the lines of;

*Simply put, a mutable object can be changed after it is created, and an immutable object can't* ✓

**8. Please demonstrate a String (Module 2)**

[3]

Guide the student through the use of a string and check their understanding

**9. Please demonstrate a list (Module 2)**

[3]

Guide the student through the use of a string and check their understanding

**10. Please demonstrate a numeric value (Module 3)**

[3]

Guide the student through the use of numeric value and check their understanding

**11. Please demonstrate a set (Module 3)**

[3]

Guide the student through the use of a set and check their understanding

**12. Please demonstrate a boolean (Module 3)**

[3]

Guide the student through the use of a boolean and check their understanding

**13. What is an operator in Python? (Module 4)**

[1]

Student should answer along the lines of;

*An operator is a means in which we can manipulate some values. We use them to perform operations on variables and values* ✓

**14. Please demonstrate an arithmetic operator (Module 4)**

[3]

Guide the student through the use of an arithmetic operator (it can be any variation) and check their understanding

**15. What is an if statement? (Module 4)**

[1]

Student should answer along the lines of;

*If statements evaluate a condition and if it is true then the code can enter this block and execute the block hidden inside of it* ✓

**16. Please demonstrate a comparison operator in an if statement (it can be any) (Module 4)**

[3]

Guide the student through the use of an arithmetic operator in an if statement (it can be any variation) and check their understanding

**17. Are decision making statements evaluated in a top down manner? (Module 4)**

[1]

Yes ✓

**18. What is a for loop in Python and why is it used? (Module 5)**

[1]

Student should answer along the lines of;

*For loops are used to 'loop' through an iterable object and perform the same action on each item in the list* ✓

**19. Please demonstrate a loop (Module 5)**

[3]

Guide the student through the use of a for loop or while loop and check their understanding

**20. Please demonstrate a function (Module 5)**

[3]

Guide the student through the use of a function and check their understanding

**END OF EXAMINATION**