Exam revision

Unit 8 Programming construction

Assembler		Interpreter Converts code one line at a time,	Compiler
Converts			Converts high level programs into machine code for execution at a later time
into machine code		Positive= Errors are reporting and corrected as execution continues	() Positive=
		Drawback=	Drawback= Displays multiple
Error type	Description	Example	that can be hard to understand
	A mistake in the program instructing the prog	gram to do	

Error type		Description	Example	
Logical error		A mistake in the program instructing the program to do the wrong thing		
		The program works but		
		When the program as a result of an invalid operation during execution		
			3.12554 becomes 3	.12
			print("Hello"	
Rounding	error			
		When a compiler can't find the it incorrectly in	When a library has no been included in the code but has been cal	

Compilation process		
Stage 1	Lexical analysis	
Stage 2		
Stage 3		
	analysis	
Stage 4	analysis	
Stage 5		
	generation Machine code is generated	
Stage 6		
	Code	

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		Interpreter	Compiler
Assembler		Converts code one line at a time,	
Converts			Converts
		Positive=	Positive=
		Drawback=	Drawback= Displays multiple
Error type	Description	Example	that can be hard to understand
Error type	Description A mistake in the program instructing the pro-		that can be hard to understand

Error type	Description	Example
Logical error	A mistake in the program instructing the program to do the wrong thing	
	The program works but	
	When the program as a result of an invalid operation during execution	
		3.12554 becomes 3.12
		print("Hello"
Rounding error		
	When a compiler can't find the sub procedure as the programmer might have declared it incorrectly / did not instruct the compiler to include the sub program (library) in the code.	

Compilation process		
Stage 1	Lexical analysis	
Stage 2		
Stage 3	analysis	
Stage 4	analysis	
Stage 5	generation Machine code is generated	
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	Code	

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Syntax errors are a type of programming error.	The following program is intended to calculate a total mark achieved by one student who ha
Giving specific examples, describe two other different types of programming errors.	taken four tests. The program contains two errors. [4
[6]	Total is integer
	Count is integer Mark is integer
	Total = 0
	for Count = 1 to 4
	ipnut Mark Total = Total - Mark
	next Count
	Name the errors and write down the corrected code.
	Error type 1
	Corrected code 1
	Error type 2
	Corrected code 2
