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Introduction:

Attention Getter: Despite AI being a super hot topic right now, computers are very, very stupid.

The what and the why: The fundamentals of software engineering. Coding is easy and anyone can do it

Logical Orientation:

- Variables are how we represent data in our program.
- Control flow is how we make our program “think”.
- Loops are how we execute the same code over and over without having to rewrite it over and over.

BODY

- 2-5 MAIN POINTS PREFERRED ·USE ONLY COMPLETE SENTENCES

Variables are the main way we can represent data in our code:

1. Numbers can be represented in 2 main ways within a program:
 - Integers and how they are declared and used
 - Floating point numbers and how they are declared and used.
2. Strings are how text is represented in a program:
 - String declaration.
 - Prompting the user for input and printing information to the user.
3. Boolean variables are how we represent the concepts of true and false:
 - Declaring bools normally.
 - Declaring bools with comparisons.

Transition: That is all you need to program AI (sort of)

Control flow and if/else statements:

1. Why is logic important in programming?
2. Using if/else statements and boolean values to program

Transition: What if a programmer needs to do the same thing thousands or millions of times?

III. Loops:

1. While loops
 - While the bool between the parentheses next to the while keyword is true, the loop will continue to execute.
2. For loops:
 - While loops are used when we want our loop to run a certain number of times.
 - They use an index variable to keep track of the current loop number.
 - They use a break bool in the same way while loops do.
 - They have a statement that executes every loop.

CONCLUSION

Logical Closure (restate main points or thesis): We learned about variables, control flow, and loops. You can make many, many programs with just these principals.

The What and the Why: Computer science is very complicated, but coding can be learned by anyone.

Clincher: (end: when in doubt end with a “Thank You for Listening”): Thank you for listening.