

Day_9

May 10, 2024

1 Day 9

1.1 Revising Day 1 to Day 8

Introduction to Python and Installation

Python is a high-level programming language known for its simplicity and readability. To install Python, download the installer from python.org and follow the installation instructions. Basic syntax involves using indentation to denote blocks of code and writing statements line by line. Variables are used to store data, and data types include integers, floats, strings, booleans, etc. Basic input/output operations involve functions like `input()` and `print()`.

Example:

```
# Basic syntax
print("Hello, world!") # Example of a print statement
```

```
# Variables and data types
x = 10
y = "Python"
print("x is", x, "and y is", y)
```

```
# Basic input/output
name = input("Enter your name: ")
print("Hello", name)
```

Control Flow

Conditional statements like `if`, `elif`, and `else` are used for decision-making in code. Loops, including `for` and `while` loops, are used for repetitive tasks. `Break` and `continue` statements alter the flow of loop execution.

Example:

```
# Conditional statements
num = 10
if num > 0:
    print("Positive")
elif num < 0:
    print("Negative")
else:
    print("Zero")
```