Operators in Python are special symbols used to perform operations on variables and values. There are several types of operators in Python. Arithmetic operators like '+', '-', '*', and '/' are used for basic mathematical operations. Comparison operators such as '==', '!=', '>', and '<' are used to compare values. Logical operators like 'and', 'or', and 'not' help in combining multiple conditions. Assignment operators, such as '=', '+=', and '-=', are used to assign values to variables. Python also has bitwise, membership, and identity operators, which are used for more advanced operations.