Operator overriding in python

Operator overriding is a feature in Python that allows developers to reduce the behavior of mathematical and comparison operators for custom data types. This means that you can use the standard mathematical operators (+,-*,/ etc) and comparison operators (<,>,== etc) in your own classes, just as you would for built in data types like int float and str.

Why do we need operator overloading

Operator overloading allows you to create more readable and intuitive code. For instance consider a custom class that represents a point in 20 space. You could define a method called add two point together, but using the + operator makes more concise and readable.

Source Code

```python
class Vector:
    def __init__(self,i,j,k):
        self.i=i
        self.j=j
        self.k=k

    def __str__(self):
        return f"{self.i}i+{self.j}j+{self.k}k"

    def __add__(self,x):
        return f"{self.i+x.i}, {self.j+x.j} ,{self.k+x.k}"

v1=Vector(2,4,9)
print(v1)


v2=Vector(10,20,30)
print(v2)

print(v1+v2)
print(type(v1+v2))
```

Thank You