Number System Conversions in Python 3

1. Binary to Other

```
Binary to Decimal:
binary = '11001'
decimal = int(binary, 2)
print(decimal)  # Output: 25

Binary to Octal:
binary = '11001'
decimal = int(binary, 2)
octal = oct(decimal)
print(octal)  # Output: 0o31

Binary to Hexadecimal:
binary = '11001'
decimal = int(binary, 2)
hexa = hex(decimal)
print(hexa)  # Output: 0x19
```

2. Octal to Other

```
Octal to Decimal:
octal = '31'
decimal = int(octal, 8)
print(decimal)  # Output: 25

Octal to Binary:
octal = '31'
decimal = int(octal, 8)
binary = bin(decimal)
print(binary)  # Output: 0b11001

Octal to Hexadecimal:
octal = '31'
decimal = int(octal, 8)
hexa = hex(decimal)
print(hexa)  # Output: 0x19
```

3. Decimal to Other

Number System Conversions in Python 3

```python
Decimal to Binary:
decimal = 25
binary = bin(decimal)
print(binary)  # Output: 0b11001

Decimal to Octal:
decimal = 25
octal = oct(decimal)
print(octal)  # Output: 0o31

Decimal to Hexadecimal:
decimal = 25
hexa = hex(decimal)
print(hexa)  # Output: 0x19
```

4. Hexadecimal to Other

```python
Hexadecimal to Decimal:
hexa = '19'
decimal = int(hexa, 16)
print(decimal)  # Output: 25

Hexadecimal to Binary:
hexa = '19'
decimal = int(hexa, 16)
binary = bin(decimal)
print(binary)  # Output: 0b11001

Hexadecimal to Octal:
hexa = '19'
decimal = int(hexa, 16)
octal = oct(decimal)
print(octal)  # Output: 0o31
```