

11. Write a program to find the reverse of a given number using recursive

Aim: to find the reverse of a given number using recursive

Program:

```
def reverse_number(n, rev=0):  
    if n == 0:  
        return rev  
    else:  
        return reverse_number(n // 10, rev * 10 + n % 10)
```

```
number = 12345
```

```
reversed_number = reverse_number(number)
```

```
print(f"The reverse of {number} is: {reversed_number}")
```

Output:

```
The reverse of 12345 is: 54321  
=== Code Execution Successful ===
```

Time complexity: $O(\log(n))$