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

Program:

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

# Example usage
number = 12345
reversed_number = reverse_number(number)
print(f"Reverse of {number} is {reversed_number}")
```

Output:

```
"C:\Program Files\Python312\python.exe" "C:\Work Space\DAA COADS.PYTHON\program11.py"
Reverse of 12345 is 54321

Process finished with exit code 0
```

Time complexity:

O(log n)