

EXERCISE 2

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

PROGRAM:

```
def reverse_number(n, rev=0):  
    if n == 0:  
        return rev  
    else:  
        rev = rev * 10 + n % 10  
        return reverse_number(n // 10, rev)  
number = int(input("enter the number"))  
reversed_number = reverse_number(number)  
print("Reverse of", number, "is", reversed_number)
```

INPUT: `enter the number: 12345`

OUTPUT: `Reverse of 12345 is 54321`

TIME COMPLEXITY: $O(\log n)$