

1.write a program to find the recursive of a number using recursive.

Code:

```
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 reversed number of {number} is: {reversed_number}")  
output=
```

```
The reversed number of 12345 is: 54321
```

Time complexity=f(n) $f(n)=o(n \log n)$