

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

Program:

```
def reverse_number(n):  
    if n<10:  
        return n  
    else:  
        last_digits=n%10  
        remaining_digits=n//10  
        return  
last_digits*(10**len(str(remaining_digits)))+rev  
erse_number(remaining_digits)  
num=12345  
print("original number:",num)  
print("reverse",reverse_number(num))
```

Output:

A screenshot of a terminal window with a dark background. The first line shows the command prompt and the file path: "C:\Users\srika\Desktop\CSA0863\pythonProject\.venv\Scripts\python.exe "C:\Users\srika\Desktop\CSA0863\pythonProject\problems\CSV_files.py". The second line shows the output "original number: 12345". The third line shows the output "reverse 54321". The fourth line shows the message "Process finished with exit code 0".

```
C:\Users\srika\Desktop\CSA0863\pythonProject\.venv\Scripts\python.exe "C:\Users\srika\Desktop\CSA0863\pythonProject\problems\CSV_files.py"  
original number: 12345  
reverse 54321  
Process finished with exit code 0
```

Time complexity: $O(\log_{10}(n))$